



UNIVERSITY OF ALBERTA

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Digging into the future of science

Construction officially begins on the Centennial Centre for Interdisciplinary Studies

By Caitlin Crawshaw

University of Alberta President Indira Samarasekera took control of some heavy equipment earlier this month, to help mark a ground-breaking ceremony for the new Centennial Centre for Interdisciplinary Studies (CCIS).

The March 5 event marked a milestone for the advancement for discovery at the U of A, Samarasekera said.

"CCIS will be central to our ability to advancing those frontiers (of knowledge) and to building one of the world's greatest universities right here at the University of Alberta," said Samarasekera.

When it is completed in 2010, the \$315-million building will provide space for an additional 1,100 undergraduate and 500 graduate science students, as well as another 57 faculty members.

CCIS will house five main research units: integrated earth and landscape management, nanostructures and new materials, resource geosciences, chemical biology and proteomics, and planetary dynamics.

"The CCIS is an extraordinary example of transformative infrastructure to facilitate and foster that very collaboration between research and disciplines," said Samarasekera.

"The five interdisciplinary teams that will be housed here will be on the cutting edge of some of the most exciting opportunities of our time."

Faculty of Science Dean Greg Taylor says CCIS will also provide "a unique learning environment where learning and research are intimately connected, and where science will literally be visible all around you."

"We certainly believe that the future of science lies at the interface of traditional disciplines, the very



University of Alberta President Indira Samarasekera got behind the wheel of an excavator at a groundbreaking ceremony celebrating the start of construction for the Centennial Centre for Interdisciplinary Studies.

architecture of this building and the way we bring people into this building will bring people together in ways we believe will promote positive new collaborations between students, staff and visitors to campus."

The government of Alberta has committed \$285 million over the next three years to the project - money that's well spent, said Advanced Education and Technology Minister Doug Horner. "We view this as an excellent investment in the skilled people we're going to need in the future."

Horner said CCIS has many benefits for the province, including its potential to

»» quick »» facts

- The CCIS lecture theatre is scheduled to be completed in 2008.
- The building will contain 2,200 lecture seats, 648 lab seats and will take up 52,227 sq. m of space.
- CCIS will be home to seven departments: biological sciences, chemistry, computing science, earth and atmospheric sciences, mathematical and statistical sciences, physics and psychology.
- The Government of Alberta has committed \$285 million over the next three years towards construction of the CCIS. The total cost of the project is \$315-million.

stimulate partnerships and collaborations, and to transform the way science is taught. "Most importantly, it delivers on the

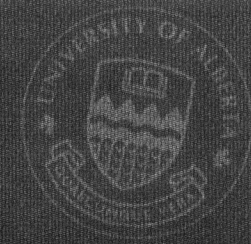
government's commitment that we are going to increase access and quality of post-secondary education," said Horner. ■



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Buriak earns Steacie Fellowship

'Dream research' gets green light with award

By Richard Cairney

Chemistry professor Dr. Jillian Buriak has been awarded a prestigious Steacie Fellowship Award from the Natural Sciences and Engineering Research Council.

An expert in semiconductor surface chemistry and research group leader at the campus-based National Research Council National Institute for Nanotechnology, Buriak says the Steacie award opens the door to a new area of research for her.

"It means I get to do my dream research," she said.

The award will support interdisciplinary research Buriak will conduct with Department of Medicine Division of Neurology professor Dr. Fabrizio Giuliani. The two will apply Buriak's nanotechnology know-how to investigate the causes and treatment of neurodegenerative disorders,

"You can study the effects of different drugs or factors on different parts of the neuron to understand, from a fundamental perspective, what is leading to neurodegeneration and whether you can prevent it."

— Dr. Jillian Buriak

particularly multiple sclerosis.

"We will be making chips from silicon and other materials and we're going to be growing human cortical neurons on them, and providing a nanostructured environment in which the neurons think they are at home in the brain," Buriak said.

Convincing neurons that they are in their natural element will allow the researchers to better understand the development of neurodegenerative diseases and the effects of different drugs and hormones.

But it won't be an easy trick to pull off. "The outer surface of these cells is a nanostructured environment," Buriak said. "So you need a surface that mirrors what is on the outside of the cells. You can't just slap stuff down, which is what people have always thought. First we have to develop the map that shows what kind of environment they like to live in: do they like to live in the city or the country, or the suburbs — what does this place look like?"

"You can study the effects of different drugs or factors on different parts of the neuron to understand, from a fundamental perspective, what is leading to neurodegeneration and whether you can prevent it."

U of A President Indira Samarasekera



Chemistry professor Dr. Jillian Buriak has been awarded a prestigious NSERC Steacie Fellowship. She will use funding from the award to pursue research into the causes and treatments for neurodegenerative disease, particularly multiple sclerosis.

said Buriak has a knack for crossing traditional knowledge boundaries.

"It is Jillian's passion, curiosity and ability to work fluidly between disciplines, which has resulted in breakthroughs in nanoscale materials, which have earned her awards such as the Rutherford Medal from the Royal Society of Canada, Top 40 Under 40 and the Steacie Fellowship," Samarasekera said.

"We have been awarded 10 Steacie Fellowships in the past decade, which places us second in the country and is a reflection

of the quality of our young faculty."

Buriak said receiving the award has important professional significance.

"I came back to Canada 3-1/2 years ago and, for me, this is leading to a feeling of acceptance by the Canadian scientific community," said Buriak, a Toronto native who studied at Harvard and Université Louis Pasteur in Strasbourg, France. She left a position at Purdue University to join the U of A in 2003.

The awards will be presented at a special ceremony March 19 in Ottawa. ■

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Fast-tracking commercialization

Contribution from AHFMR will help TEC Edmonton push research into marketplace

By Caitlin Crawshaw

A collaboration between the Alberta Heritage Foundation for Medical Research (AHFMR) and TEC Edmonton will fast-track the commercialization process for researchers in the life sciences and health-care fields.

AHFMR has given \$105,000 to TEC Edmonton from its ForeFront program, which supports researchers working to commercialize medical and health products and services. TEC will administer the new funds in order to help researchers take the first step of the commercialization process.

"It's a huge validation of their trust in us and their belief that our due diligence process is credible, thorough and vigorous," said David Cox, TEC Edmonton CEO, adding that this is the first time AHFMR has asked a third party to allocate funds on their behalf.

The money will be distributed in the form of investment awards ranging from \$5,000 to \$20,000. The funding will help researchers with a wide range of activities, including: protecting intellectual property (usually by filing a patent application), exploring market opportunities and creating a business plan.

It's a long list, said Cox, "but it's not something researchers are particularly as familiar with as we are, because that's our bread and butter — that's what we do."

"To commercialize a technology is quite time-consuming and quite expensive, but this initiative we have here will

make it easier for the researchers to take the first step on this journey," said Cox.

Seed capital can be hard to find in Alberta and the ForeFront program has long been one of the most important sources of commercialization funding in the province, he said.

Cox added that commercialization is "critically important" to the province, and is, in many cases, the way research is disseminated into the wider community. Drugs, for instance, can't get to patients until they're commercialized.

"The mission of the university, among many other things, is to transfer technology to the wider society. And for the vast majority of cases, the only way you're going to do it is through commercialization." ■



TEC Edmonton CEO David Cox.

» quick » facts

- The new funding will help researchers with many aspects of commercialization, including: protecting their intellectual property, exploring market opportunities, building a business plan and supporting development and design of prototypes.

- TEC Edmonton is a joint venture of the University of Alberta and the City of Edmonton, through the Edmonton Economic Development Corporation. It aims to provide access to expertise, resources and connections to help inventors, entrepreneurs and investors succeed in technology-based ventures.

- Since 1985, ForeFront has provided more than \$23 million in funding to researchers and innovators who have undertaken almost 300 commercialization projects.

Separation of church and classroom

Should Canada's public schools teach religion? Our multicultural society depends on it, say two professors.

By Lee Craig

While religion is seen by many as an unwelcome presence in Canadian classrooms, Dr. David Smith argues that religious education is crucial.

The University of Alberta professor of secondary education believes that teaching the world's religions to students will help them understand their multicultural community.

"Religious interests are already everywhere in schools, and this is especially true in Canadian schools in urban centres ... It's more a question of whether public education wants to engage a reality already present," said Smith.

"Personally, I think as educators we have a responsibility to not let it slide under the carpet of public policy, but rather, if possible, to make it more public."

Smith, who shared his views at a March 10 Philosopher's Café, believes the traditional separation of church and state in Canada has resulted in the ghettoization of religion. He thinks that this separation will not help young people understand today's world.

"This separation comes out of a long history of religious conflict in Europe. Unfortunately, (in Canada) this theory has resulted in the ghettoization of religion and the privatization of religious experience," said Smith.

"Everybody worships in their own way. The consequence is a cultural ignorance about the religion of others outside one's own tradition."

In a world with rapidly interconnecting cultures, it is not healthy for religious experience to be kept so separate.

"In liberal democratic cultures, schools are meant to create a public, not just to serve a public."

From this principle, he said, comes the idea that educators need to provide a space for children to learn about others.

"This is a controversial point, but I will make it anyway: sometimes kids need an alternative interpretation from what they learn at home, from their families, from their own traditions. Schools can be one place where this is provided."

Teaching about religions is not popular partly because religious factions have lobbied the government to not interfere in their traditions. At the same time, while adults may advocate one thing, young people are searching for an understanding of a complex world.

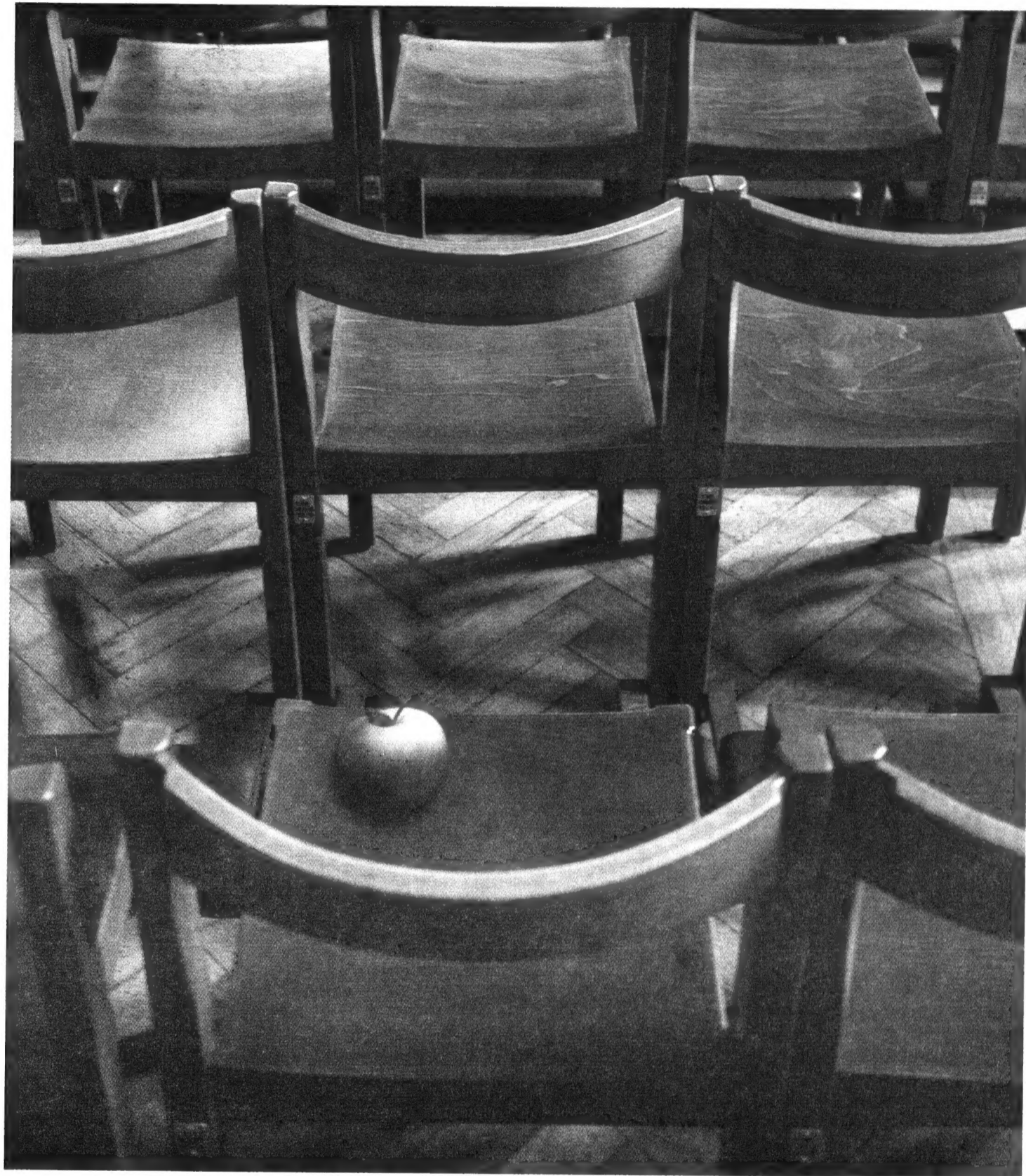
"They are very impressionable. Where can they get alternative interpretations that are responsible and are as open and free as possible?"

Smith pointed to the Internet as one tool children and teens have today to learn about religions and different cultures. "There is lots of information today, but I think it is far more important to have an open public discussion about this, rather than private searches on the Internet."

Dr. Patricia McCormack, a professor in the Faculty of Native Studies, is a strong supporter of teaching about religion in a comparative way, to help students understand different religious values. However, she isn't sure how educational institutions and governments would put a program together.

"There is a strong sense of exclusivity to many religions and to a certain extent, schools have tried to avoid this subject by simply not addressing it," said McCormack.

"If it is addressed it should probably be addressed in some kind of equal way for



Dr. David Smith believes teaching about religions in public schools will help students understand their multicultural communities.

all religions and would take some serious collaborative or partnership work to figure out how to address these very sensitive topics," she said.

The question of who teaches students about religions is also crucial. "It's probably better not taught at all than taught badly."

McCormack teaches a class in gender stereotypes and racism. She says it is her experience that there are strong misunderstandings in the general population about religions and cultures. Because of these stereotypes, she sees that learning about world religions would be beneficial for students of all ages.

"All one has to do is tune into an episode of *Little Mosque on the Prairie* to get a sense of the misunderstandings that exist," she said. "It is really important that students have the chance to learn about other people and their cultures and move beyond the stereotypes that tend to exist."

She added that shows such as *Little Mosque*, a CBC comedy about Muslims and non-Muslims living in

Saskatchewan, and *North of 60*, which had many aboriginal characters, are interesting in the way they play into and address certain racial stereotypes.

But stereotypes are enormously hard to change, despite progressive television shows, says McCormack.

Her students tell her they would love to see every student at the U of A take a class on aboriginal culture and values. She is sure they would like to see that in public schools as well.

She cautions that it can be difficult for teachers to put their own values and beliefs aside when teaching about other religions and cultures. And while those values may not be strictly religious values, there are other values teachers can impart.

"When aboriginals were moved into residential schools, or day schools, the curricula taught in all of those schools were curricula based in European and Canadian values," McCormack.

"Canada used education as a vehicle to assimilate everybody ... In the early part of Alberta's history, the Galicians,

from Western Europe, were intended to be assimilated into a Canadian nation state. What happened to aboriginals was really the same. Because of the boarding schools system, it got taken to an extreme that didn't happen to most immigrants."

When aboriginals were integrated into the mainstream school system in Western Canada their values, traditions and spirituality were not accommodated at all, she added.

Further, if world religions and native spirituality are to be taught in Canadian public schools, everyone must respect the wishes of people to keep their spirituality private, says McCormack.

She pointed to the tremendous interest that the Canadian public has in native spirituality right now.

"A concern of people in the aboriginal communities is that they don't see their spirituality as something that should be just laid out on the table. A lot of it is seen as very private and rather personal," she said. "It's a very fine line to walk in terms of what one can say about these kinds of thing and what is inappropriate." ■

Research looks at what's best for babies

Instructing depressed mothers on care improves happiness of infants

By Bev Betkowski

Medically treating post-partum depression may not be enough to improve a mother's relationship with her baby, according to a new study done in part by the University of Alberta.

The other essential factor is giving struggling new mothers basic tools to read behavioural cues from their babies and effectively respond to their needs, said Dr. Robert Short, a co-author on the study and professor of educational psychology at the U of A. The pilot study of 11 mild to moderately depressed mothers and their babies showed that when the women were taught how to react to their babies' emotional cues, the infants responded with heightened levels of interest and joy, even though their mothers' depression levels did not change.

"They were able to be positive for their babies despite their own struggles," Short said.

The study, which also included research from the University of New Brunswick, appears in this month's issue of *Journal of Affective Disorders*.

The study used an intervention program called the Keys to Caregiving (KTC) that helps parents understand and respond to infant behaviours, with the goal of increasing positive expressions in the babies. Over five weekly group sessions, the moms and babies were videotaped before and after KTC intervention. The tapes were then scored for the facial emotion expressions of the infants. In one experiment, prior to intervention, 39 per cent of infants displayed interest in their mothers' expressions. Afterwards, it rose to 67 per cent. The babies' expressions of joy rose from 2.8 per cent to 13 per cent.

"It doesn't focus on her condition, but on what she can do and how she can better interpret her baby."

— Dr. Robert Short

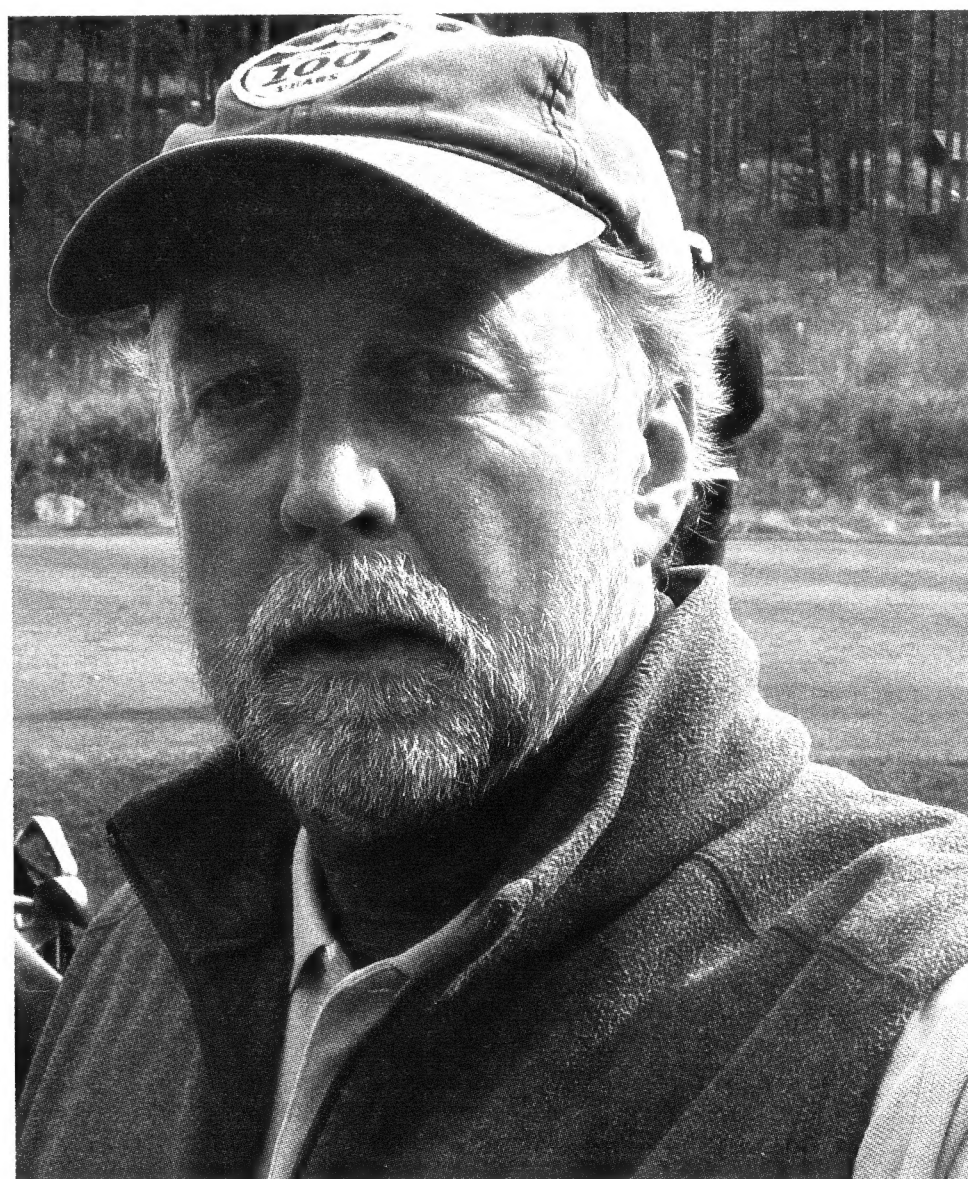
The interventions consisted of educating the mothers about different infant states (levels of sleeping and waking), behaviours (unique personalities), cues (non-verbal language) and interaction during feedings. The mothers then practiced these new skills during training sessions and at home.

"This gives depressed mothers some sort of structure in terms of what the baby is doing. It doesn't focus on her condition, but on what she can do and how she can better interpret her baby."

As many as 30 per cent of new mothers suffer post-partum depression, which can result in serious growth and developmental problems for infants, Short noted. "What this study shows is that if you focus medically just on the mother's condition, it doesn't necessarily follow that it will improve the type of interactions that are essential for normal healthy child development."

Programs like KTC should apply to all new mothers, he added.

"We assume that mothers have this automatic ability to interact with their babies, and not all of them do," Short noted. ■



Supplied

Dr. Robert Short says that teaching mothers ways to recognize behavioural cues from their babies can help them better respond to their needs, improving the well-being of their infants.

New program aimed at cutting deaths from colorectal cancer in half

SCOPE focuses on education, prevention

By Folio Staff

A comprehensive new initiative aims to cut the number of deaths from colorectal cancer in Alberta by half.

Up to 90 per cent of deaths from colorectal cancer could be avoided, says Dr. Richard Fedorak, a gastroenterologist and clinical leader for Stop Colorectal Cancer through Prevention and Education (SCOPE) and director of the University of Alberta's Centre of Excellence for Gastrointestinal Inflammation and Immunity Research.

"Colorectal cancers are curable when detected early, at the stage when they are small polyps and easily removed. This cancer can be beaten with the knowledge we have today," said Fedorak. "But until now in Canada we've not focused our energies to find the disease early, before patients have obvious symptoms. We need a different kind of medical breakthrough — a population-wide program to identify people at risk, diagnose and treat them early."

SCOPE will roll out this fall, under the leadership of Fedorak and Marianne Stewart, Capital Health vice-president and chief operating officer (primary care).

SCOPE will build on the success of the region's chronic disease management model, said Stewart. A new website will help people learn about healthy lifestyle choices, risk factors and screening services, including when to seek care from their family doctor to be screened through a fecal occult blood test (FOBT).

Capital Health Link will help family doctors follow up FOBT results, and facilitate referrals to specialists as appropriate. Abnormal results will be followed up with patients and family physicians, to make sure patients are assessed and referred for

"We need a different kind of medical breakthrough — a population-wide program to identify people at risk, diagnose and treat them early."

— Dr. Richard Fedorak

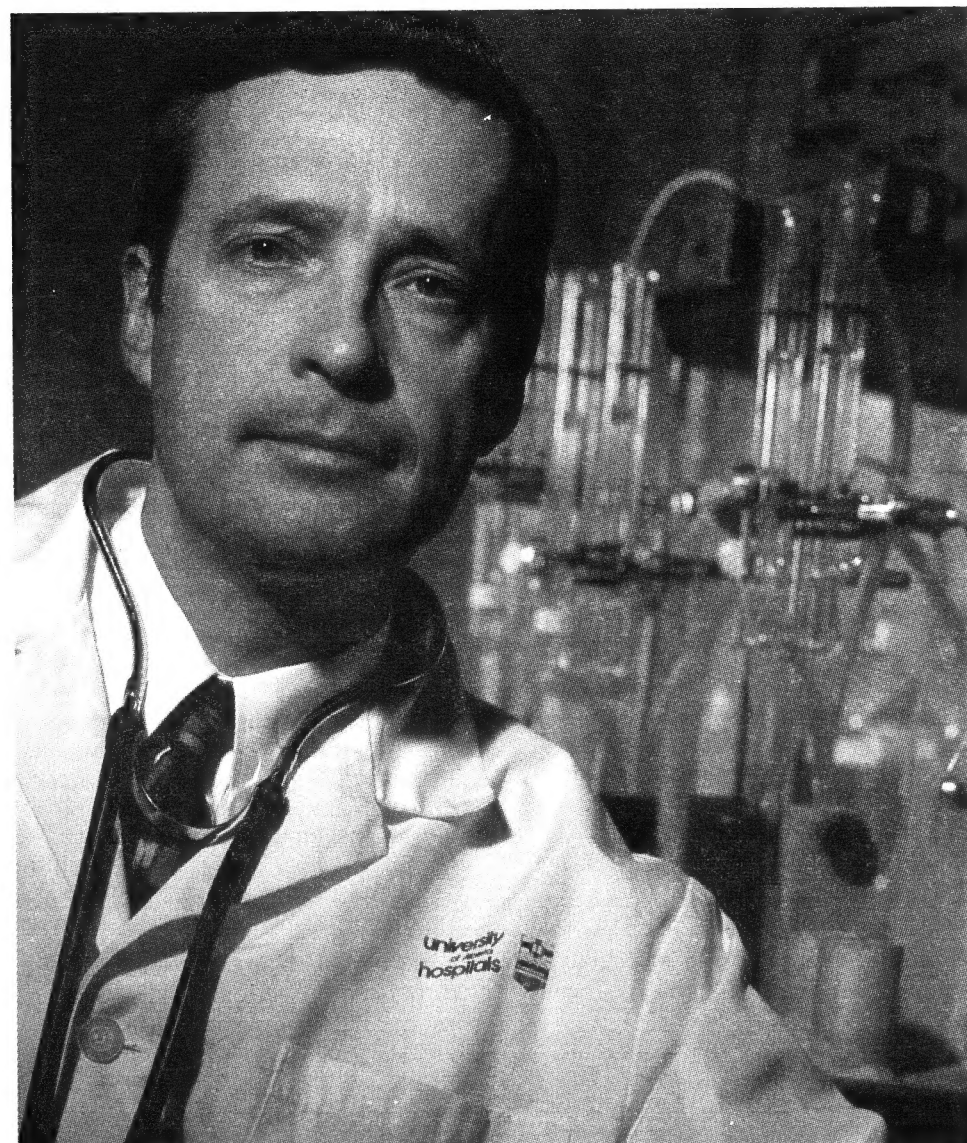
diagnosis as appropriate (usually via colonoscopy). Results will be monitored in a database so that researchers can evaluate and refine the program, and develop and test new diagnostic tools.

Colorectal cancer kills more than 500 Albertans a year — more than any other cancer except lung. The Alberta Cancer Board (ACB) recommends all adults between the ages of 50 and 74 complete a FOBT each year, but estimates as few as 15 per cent actually do.

"Even a modest increase in uptake of FOBT could save dozens of lives a year in Alberta," said Dr. Heather Bryant, ACB vice-president. "But a comprehensive approach could have a much larger impact."

Education is critical, to get people engaged in managing their own health, said Fedorak.

"The program can only work if people have the screen test, just like a mammogram or a pap smear," he said. "Family physicians work hard to screen their patients appropriately for colorectal cancer and other diseases. The key is to support them by casting the screening net across the whole at-risk population, through a systematic program." ■



Creative Services

About 90 per cent of deaths from colorectal cancer could be avoided, says Dr. Richard Fedorak, the clinical leader of a new program geared at cutting the number of mortalities from the cancer. The program aims to reduce the number of Albertans who die from colorectal cancer by half.

Journalist taking a closer look at climate change

Ed Struzik focuses on the mysteries of the North

By Caitlin Crawshaw

Science journalist Ed Struzik has been on countless expeditions to the North during his career, but says the Arctic has never lost its mystery.

"I've travelled maybe 30 years in the Arctic, but every year I come back just bewildered, puzzled, because I thought I'd had it figured out – but I don't have it figured out," he said.

At the end of this year, however, Struzik might be closer to unravelling the mysteries of the North. The award-winning science journalist and long-time University of Alberta Faculty of Extension science writing instructor, has snagged the Atkinson Fellowship in Public Policy, an award which allows a journalist to spend a year focused on an issue of national importance. Struzik has chosen climate change and its impact on Arctic and sub-Arctic worlds.

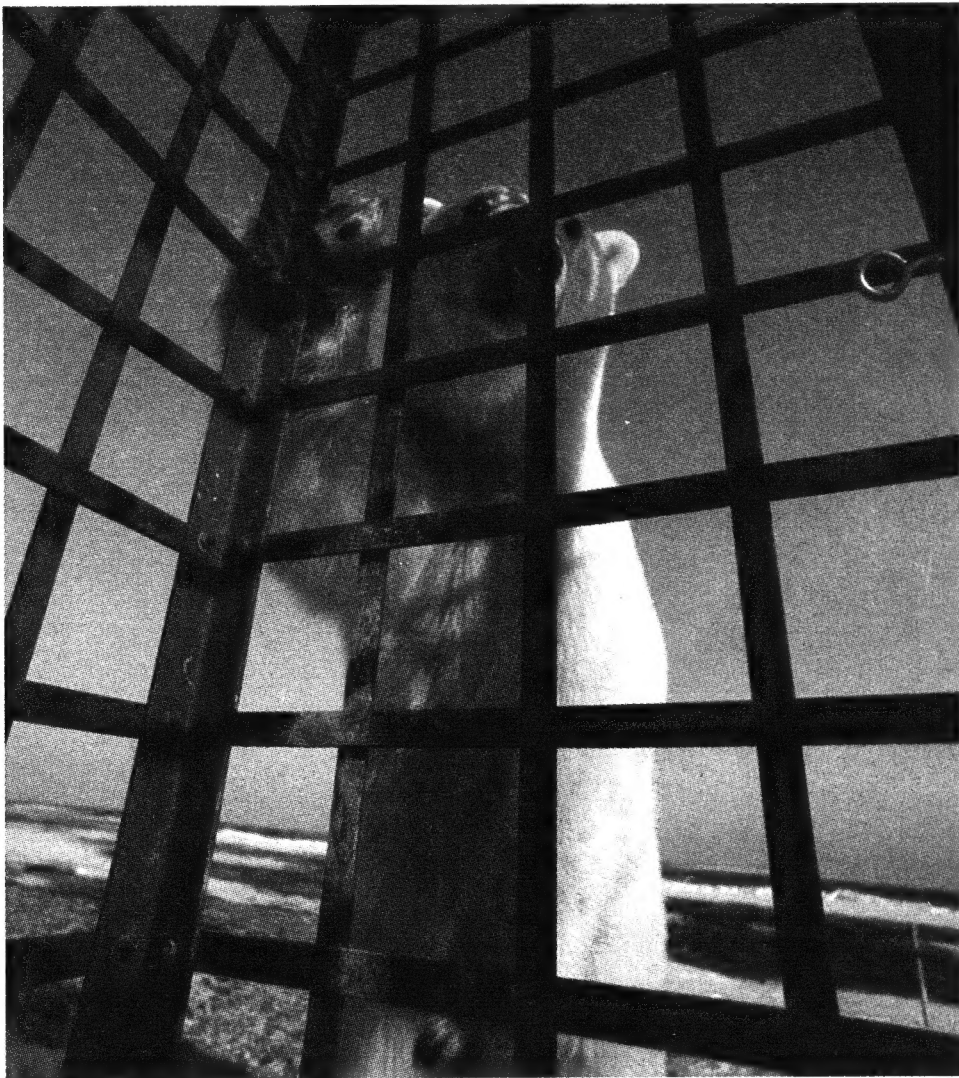
He spoke candidly about the natural history of the arctic and his experiences in the North at a campus talk on March 6 – the latest instalment of the Northern Speaker Series, sponsored by the Circumpolar Students' Association and the Canadian Circumpolar Institute.

Struzik's work as a science journalist has led him to experience the North in a way few people can. He has tagged along with scientists to the ends of the Earth and gathered more than a few stories in the course of his work. As a young man, for instance, Struzik spent time living with a scientist friend at a research station in the Hudson Bay, where they would attract polar bears by cooking rancid meat and then find ways to scare them away from work sites. At the time, there was more oil and gas development occurring in the area, and workers needed an alternative to shooting the bears, whose numbers are waning.

"We would do things like shoot them with rubber bullets and plastic slugs and throw fire-crackers – we experimented with any number of ways to try to get rid of them. It was all perfectly legal and for a good cause," said Struzik.

Struzik's fascination with the bears took hold, and he decided that for journalistic purposes, he would photograph them from inside a metal cage. So, after slapping on his gear, out he went.

"It's sort of spooky. If anyone's been charged by a grizzly bear it's a different story, because it's so fast, happens so quickly, your heart is pounding. These guys, they come in and sort of look around,



Science journalist Ed Struzik has had a few close calls during his time in the Arctic, including a close encounter with a curious polar bear.

very, very quietly. And they're trying to figure out, first of all, is there going to be a shot ringing out?" said Struzik.

"They don't make any noise – there's no growling, it's so silent. And of course, I'm just beside myself because I'm thinking, 'This is award-winning photography!' I'm a genius! This is absolutely great." "

The tone of his journalistic experiment changed when the bear started pounding against the cage in the hopes of breaking it open – and was successful.

"Fortunately, he got tired of it – perhaps it was because of all the rancid meat we had lying around – and this guy ended up falling asleep outside the cage. I was totally relieved and relaxed until I realized my feet were frozen."

Fortunately, the bear wandered off

before Struzik lost any toes to frostbite – but it was a narrow escape.

Struzik's many years as a science journalist have led him to believe that the causes of climate change are complex.

He explains that for millions of years, the Arctic has been an ever-changing place and not always the frozen space we know it as today. Natural variability has always been a reality for the North.

"I don't agree with Al Gore entirely, because if you look at the past, what the past tells us is that the Arctic is far too dynamic to ever be static – so it's either warming or cooling. So I think what we're seeing now, is humans exacerbating natural warming, and we're probably responsible for the majority of what's going on," he said.

While he doesn't dispute that climate

"I think for an Arctic scientist – to use the Dickensian phrase – it will be 'the best of times and the worst of times.'"

The worst of times because we're seeing whole scale change in the Arctic world that's probably not going to be reversed in our lifetime. But, as well, you're tracking something absolutely phenomenal."

– Ed Struzik

change is occurring, Struzik believes it will "unleash a whole bunch of surprises" for all of us.

Struzik has noted many surprises already during the course of his career – including the near extinction and unexpected resurgence of the muskox population on Banks Island in the last half of the 20th century and the recent mating of grizzly and polar bear populations in the North.

"I think for an Arctic scientist – to use the Dickensian phrase – it will be 'the best of times and the worst of times.' The worst of times because we're seeing whole scale change in the Arctic world that's probably not going to be reversed in our lifetime," he said. "But, as well, you're tracking something absolutely phenomenal. It's just an amazing, amazing natural change in the cycle of the world. If I could start all over again, I think I'd start as a scientist."

Vicki Sahanatien, event organizer and vice-president of the Circumpolar Students' Association, says the Northern Speakers Series brings a diverse array of speakers to campus, who speak on both pure science and general interest subjects.

"We're trying to spark interest in northern research overall, in the north of Canada, and support interest there. As well, we want to inform people about the research that's happening, particularly at the U of A."

The next installment of the series will be held April 3 at 4 p.m., and will feature a talk by U of A earth and atmospheric sciences professor Dr. Martin Sharp, entitled, *Greenland's Ice is Changing – What About the Rest of the Arctic?* ■

Forests' hostile takeover sign of climate change

Trees, shrubs forcing out tundra's indigenous species

By Phoebe Dey

Forests of spruce trees and shrubs in parts of northern Canada are taking over what were once tundra landscapes – forcing out the species that lived there. This shift can happen at a much faster speed than scientists originally thought, according to a new University of Alberta study that adds to the growing body of evidence on the effects of climate change.

The boundary, or treeline, between forest and tundra ecosystems is a prominent landscape feature in both Arctic and mountain environments. As global temperatures continue to increase, the treeline is expected to advance – but the new research shows that this shift can surge ahead.

"The conventional thinking on treeline dynamics has been that advances are very slow because conditions are so harsh at these high latitudes and altitudes," said Dr. Ryan Danby, from the U of A Department of Biological Sciences. "But our data indicates that there was an upslope surge of trees in response to warmer temperatures. It's like it waited until conditions were just right and then it decided to get up and run,

"These results are very relevant to the current debate surrounding climate change because they provide real evidence that vegetation change will be quite considerable in response to future warming, potentially transforming tundra landscapes into open spruce woodlands."

– Dr. Ryan Danby

not just walk."

Danby and Dr. David Hik, also from the Faculty of Science, reconstructed changes in the density and altitude of treeline forests in southwestern Yukon over the past 300 years. Using tree rings, they were able to date the year of establishment and death of spruce trees and reconstruct

changes in treeline vegetation. The study is published in the *Journal of Ecology*.

They found that a rapid change in response to climate warming during the early mid 20th century was observed at all locations. Treelines advanced considerably – as much as 85 metres elevation – on warm, south-facing slopes and tree density increased as much as 65 per cent on cooler, north-facing slopes.

"The mechanism of change appears to be associated with occasional years of extraordinarily high seed production, triggered by hot, dry summers, followed by successive years of warm temperatures favourable for seedling growth and survival," said Danby.

Widespread changes to treelines could have significant impacts, says Danby. As tundra habitats are lost and fragmented, species and habitats are forced to move upwards as well. "The problem is that in mountainous areas you can only go so high so they get forced into smaller and smaller areas," said Danby.

These changes are of particular impor-

tance in northern regions where First Nations people still rely heavily on the land, says Danby. Tundra species like caribou and sheep populations, which are important parts of that lifestyle, have declined across southwestern Yukon. As treelines advance, the reflectance of the land surface declines because coniferous trees absorb more sunlight than the tundra. This light energy is then re-emitted to the atmosphere as heat. This sets up a "positive feedback," the same process that is associated with the rapidly decaying Arctic ice cap.

"These results are very relevant to the current debate surrounding climate change because they provide real evidence that vegetation change will be quite considerable in response to future warming, potentially transforming tundra landscapes into open spruce woodlands," said Danby, who will be participating in an International Polar Year project that will be examining treeline dynamics across the circumpolar north.

Hik is also executive director of the Canadian International Polar Year secretariat at the University of Alberta. ■

What's so funny?

Billy Strean's Laughter Club has them rolling in the aisles – with nary a joke in sight.

By Lisa Ricciotti

Humour is a funny thing: a joke that makes one person snort with laughter might fail to provoke even a smile from another. For example, have you heard the one about two cannibals eating a clown? After a few bites, one turns to the other and says: "Does this taste funny to you?"

Maybe you laughed, maybe you just groaned. That's why the first thing Dr. Billy Strean wants you to know about his Laughter Club is that he's not a standup comic. "The Laughter Club isn't about using humour," said Strean, of the monthly on-campus sessions. "It's about getting a group of people together and laughing."

People laughing and laughing for no reason? Now that's funny! But for the University of Alberta Faculty of Physical Education and Recreation professor it makes perfect sense. "We say simulated laughter becomes stimulated laughter."

Or, to put it another way, don't wait for the punch line. Just go ahead and laugh, and you'll find yourself feeling better afterwards – even without a joke.

"I focus on laughter, and the positive benefits that follow. My approach is to go through life saying 'What's funny here?' If you do that, you'll start to see the humour of life more and more. It's not silly or trivial – there are real grounds for it," he said.

Still, no matter what he says, Strean is one funny guy – and he's got a certificate to prove it. Step inside his unconventionally decorated office, and there, under the smiley face streamers and opposite a shelf crammed with toy animals that giggle maniacally, hangs the framed proof: a Certified Laughter Leader certificate. The document is signed by the Cheerman of the Bored himself, Steve Wilson – the Ohio psychologist and self-proclaimed "Joyologist" who founded the World Laughter Tour (see sidebar). Strean credits acquiring that certificate with awakening his current passion for teaching others how to add more ha-ha to their lives. Since training with Wilson in 2004, Strean has offered laughter programs to more than 6,000 people.

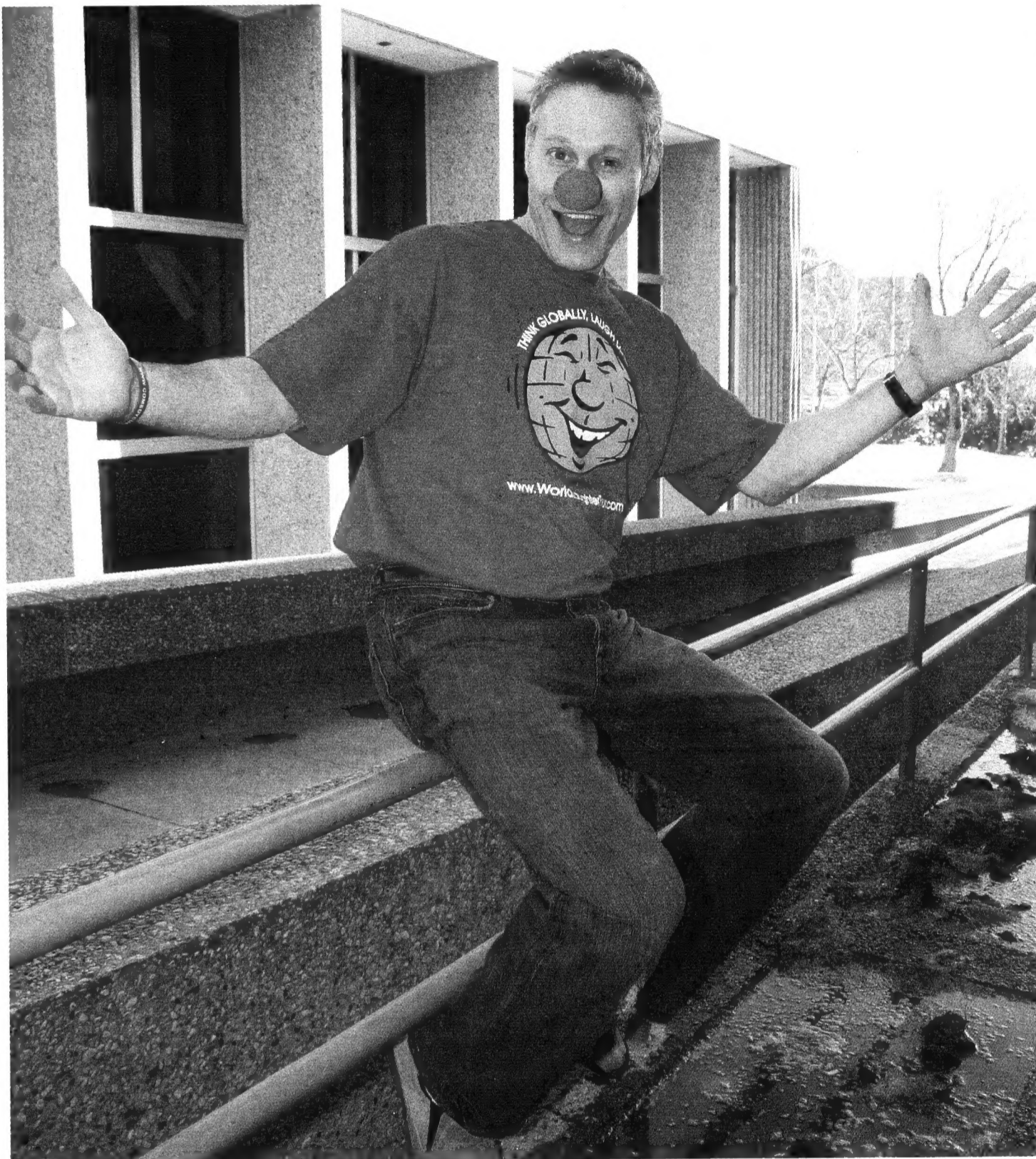
"I've done everything from Edmonton preschools to Revenue Canada, from workshops for a construction company to sessions for pediatric residents," said Strean.

Some may see his interest in laughter creation as a stretch for a former track athlete, soccer coach and sport psychologist, but Strean sees it as a natural progression.

"I tell people I used to study play, fun and games, but that was too serious," Strean said. "So now I study laughter and humour." As well, Strean points out that laughter shares many of the beneficial effects that come from exercise, including better physical and mental health – a scientifically supported fact that's often overlooked.

"If I told you I had a pill that could reduce your pain, build your immune system, give you cardiovascular, muscular and digestive benefits, and improve your mental and social health, wouldn't you want it?" Strean said. "Laughter does all those things, yet for some reason we still don't feel comfortable prescribing it. If laughter were a pill, the pharmaceutical industry would be clambering over each other to get it."

If belly-laughing your way to better health still sounds too bizarre, Strean is ready to quote numerous studies and personal experiences that show that laughter



While Dr. Billy Strean may know how to ham it up, his Laughter Club doesn't use jokes to get people giggling.

"I focus on laughter, and the positive benefits that follow. My approach is to go through life saying 'What's funny here?' If you do that, you'll start to see the humour of life more and more. It's not silly or trivial – there are real grounds for it."

– Dr. Billy Strean

is indeed the best medicine. But he'd much rather you drop in on an upcoming Laughter Club event to see for yourself.

"I give people permission to participate as little or as much as they want. It's a non-political, non-religious, non-exploitive, non-threatening, non-competitive, non-perfectionist environment – and

we're not a cult! It's comfortable and safe, a step away from the stresses of life where we play and have fun."

Be prepared, not to laugh until it hurts, but to laugh until it helps. Sessions start with a discussion of the benefits of laughter and the supporting research. Warm-up exercises follow, as Strean gets people literally laughing in a chanting rhythm. "We stimulate laughter by saying 'Ho-ho, ha-ha-ha.' And it really is true that laughter is contagious. Do it and others will join in."

Between laughing, Strean leads the group in gentle stretching and breathing exercises similar to yoga. Participants love it, and many come back for more, laughing longer and more freely each time.

"You can have insights up the wazoo about what you should do to improve your life," said Strean, adding that many of us don't engage in change.

Strean says the Laughter Club creates an atmosphere where people can work on gentle attitude adjustment and learn how to move toward enhancement. Just smile, laugh and your mood will change, says Strean. ■

Just for Laughs

- U.S. psychologist Steve Wilson founded the World Laughter Club almost 10 years ago, after meeting Dr. Madan Kataria in India and participating in Bombay's Juhu Beach laughter clubs. These popular clubs used a method called Hasya yoga to create laughter without relying on jokes, under the guidance of a trained leader. Wilson brought the idea back to the U.S., launching the World Laughter Tour in 1998, which has since grown to what he calls a worldwide "epidemic of happiness." Learn more at www.worldlaughter.com
- Dr. Billy Strean, PhD, PHD ("The first PhD is from going to school too long," said Strean. "The second stands for Professional Humour Dude"), leads free Laughter Club sessions on the first Wednesday of every month at the University of Alberta Hospital. Next sessions: April 4 and May 2, from 12:10 - 12:50 p.m. Call 492-3890 for details.

University mourns loss of former dean

Dr. Richard Peter served as dean of Science for a decade

By Michel Proulx and Claudia Wood

The University of Alberta community is saddened at the loss of a good friend and colleague.

Former dean of Science, Dr. Richard (Dick) Peter passed away unexpectedly on March 8 in Bamfield, B.C., a result of a heart attack. He was 64.

"We are all in shock. As word spreads, and the phone continues to ring, it is becoming more and more apparent how well-respected Dick was and how much he will be missed," said Faculty of Science Dean, Dr. Gregory Taylor. "We are all saddened at his passing."

Assistant chair of Earth and Atmospheric Sciences, Mary-Jane Turnell was Dr. Peter's first graduate student. "Under that tough exterior, was a gentle heart," she said. "You always knew where you stood with him. He knew how to accept an apology and better yet, wasn't afraid to give one."

Peter earned his B.Sc. at the University of Calgary in 1965 and his PhD from the University of Washington in 1969. He began his academic career at the University of Alberta in 1971 as an assistant professor in the Department of Zoology. He was promoted to full professor in 1979 and was chair of the Department of Biological Sciences from 1983 - 1992. He was then appointed dean of Science, a role he fulfilled for 10 years.

Upon leaving the dean's office, Peter became vice-president of Integrated Resource Management with the Alberta Research Council and then served as CEO of the Institute for Food and Agricultural Sciences. Since last August, Peter has served as director of the Bamfield Marine Sciences Centre, a Vancouver Island-based research station operated co-operatively by the five western universities.

Peter's list of honours and awards is extensive. Most recently, he received the 2006 Fry Medal from the Canadian Society of Zoologists for outstanding contribution to knowledge and understanding of an area in zoology. Peter received the award for Outstanding Leadership in Alberta Science from the Alberta Science and Technology Leadership Award Foundation in 1998 and was a Fellow of the Royal Society of Canada. Among other awards and honours, Peter received the Excellence in Mentoring Award from the University of Alberta; he was named a Distinguished Biologist by the Canadian Council of University Biology Chairs; he was named an Honourary Member of the Golden Key International Honour Society and the International Symposium on Fish Endocrinology named its opening plenary lecture the R.E. Peter Lecture.

Peter's accomplishments as dean of Science were numerous. He began his tenure during a period of major cutbacks, and was charged with leading the faculty on a significant restructuring which saw 13 departments become seven.

To better serve the needs of students, a number of new undergraduate programs were developed, graduate programs were revised and the Industrial Internship Program was expanded across the faculty. Student recruitment was also enhanced and a concerted effort to establish scholarships was undertaken.

Faculty recruitment was also a priority under Peter's leadership. More than 140 new faculty members were hired between 1995 and 2002. Research funding in the faculty increased under Peter's watch from a static level of about \$18.5 million in 1993-94 to \$50.3 million in



Former dean of science, Dr. Richard Peter, was a great friend and respected colleague to many.

2001-02. Faculty of Science Research and Teaching Awards were instituted in 1994.

Fund development activities resulted in the creation of the Alberta Conservation Association Chair in Fisheries and Wildlife, the C.R. Stelck Chair in Petroleum Geology, and the Strathcona County/R.U. Lemieux Chair in Carbohydrate Chemistry.

It was Peter's vision to build a centre for interdisciplinary science that began the journey to build the Centennial Centre for Interdisciplinary Science, now under construction on campus.

Peter will be missed by his many friends and colleagues on campus, particularly those within the dean's office in the Faculty of Science. ■

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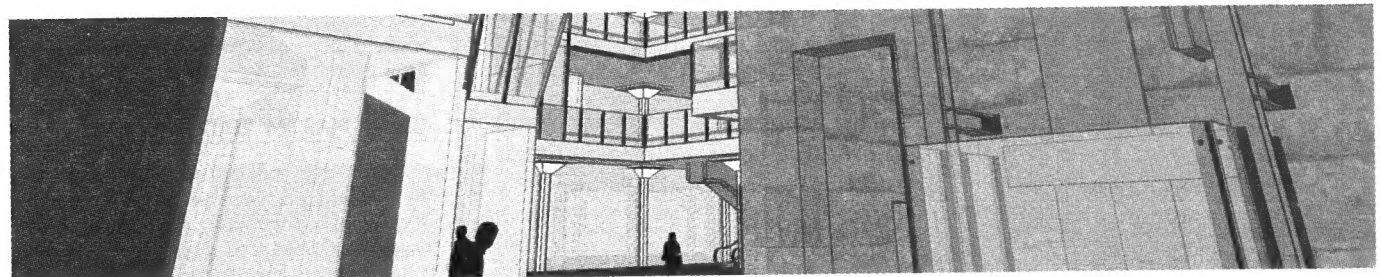
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Enterprise Square update



A rendering of the interior of Enterprise Square.

Operations update

By Folio Staff

A brown bag session for all U of A employees interested in learning more about Enterprise Square is scheduled for later this month. Representatives from Edmonton Transit System and Campus Security Services will discuss security measures in place.

Parking questions continue to be of primary interest to employees moving downtown. University employees moving to Enterprise Square will not incur transit costs for traveling between the two campuses. Discussions with the city include exploring various options for staff at Enterprise Square who must travel back and forth between the two campuses or who keep their parking space on north campus.

The university has leased 120 parking stalls downtown for staff interested in that option. The permitting of these spaces will be managed by Parking Services as would any on-

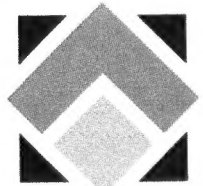
campus parking, but rates are based on current downtown market rates.

Staff moving downtown may retain their current parking space on campus. Those who elect to keep a parking space on campus, but who are interested in moving to a different lot, must inform Parking Services of the requested change by July 31. This deadline will allow the parking staff to properly manage parking inventory. Affected employees should note that Parking Services can guarantee spaces to those who wish to relocate in the Jubilee Lot or Windsor Car Park, but all other parking locations are subject to limited availability and waiting lists. Lot N near Humanities and the Education Car Park, for example, both have waiting lists, and staff who want to change their current parking assignment will not get priority over the existing waiting list.

The transition team is finalizing a date with ETS to offer a drop-in session

for employees interested in individualized trip planning and meeting one-on-one with ETS staff. Such sessions will help affected staff make the most informed decisions about their transportation options.

Exterior signage has been approved for Enterprise Square that will include a system of vertical 2 x 14-foot banners with accompanying "guild" signs beneath that are specific to the tenants. The guild signs are approximately 2 x 2 feet and are geared toward pedestrians. The original carvings on the building will be preserved and visible as part of the facility's historic designation, and Enterprise Square signage will replace the temporary U of A banners on the corners. ■



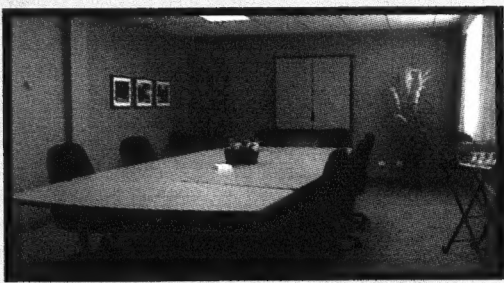
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What You Should Know and
What You Can Do to Create
a Safer Campus Community

March 21, '07

5:00-6:30pm
Room 165
Education South Building

- > Sergeant Robinder Gill
Edmonton Police Service's
Hate and Bias Crime Unit
- > Kristopher Wells
Member, Edmonton Police
Chief's Advisory Council

All members of the university
and larger community
are invited to attend this
FREE event.

Sign language interpreting
and real time captioning
services will be provided.

This event is in recognition of March 21 as the
International Day for the Elimination of Racial Discrimination.



talks & events

Folio Talks and Events listings do not accept submissions via fax, mail, e-mail or phone. Please enter events you'd like to appear in Folio and on ExpressNews at: <http://www.uofaweb.ualberta.ca/events/submit.cfm>. A more comprehensive list of events is available online at www.events.ualberta.ca. Deadline: 12 noon one week prior to publication. Entries will be edited for style and length.

UNTIL APR 17 2007

Graduate Student Support & Strategy Group (GS3G) Offers grad students a comfortable and supportive environment to discuss concerns/challenges/experiences related to being a grad student (e.g., supervisory relationships, conducting research, teaching, thesis writing, and defense preparation). If you wish to RSVP online and choose to leave your phone number and/or e-mail address, we will contact you to schedule an appointment. If you choose to RSVP online with only your name, contact Student Counselling Services to book an appointment <http://www.uofaweb.ualberta.ca/counselling/gs3g.cfm>.

UNTIL MAR 28 2007

Social Anxiety and Shyness Group Do you feel anxious when you are public speaking, meeting strangers, talking to people in authority? This group may be for you. If you wish to RSVP online and choose to leave your phone number and/or e-mail address, we will contact you to schedule an appointment. If you choose to RSVP online with only your name, please contact Student Counselling Services http://www.uofaweb.ualberta.ca/counselling/social_anxiety­ness.cfm

UNTIL MAR 27 2007

Women's Healthy Body Image Are you looking to foster a more positive body image? This women's discussion group aims to encourage healthy discussion around body image, promote self awareness of body perception and offer strategies and resources to facilitate a positive shift in perception of self. If you wish to RSVP online and choose to leave your phone number and/or e-mail address, we will contact you to schedule an appointment. If you choose to RSVP online with only your name, please contact Student Counselling Services to book an appointment. http://www.uofaweb.ualberta.ca/counselling/womens_body_image.cfm

UNTIL APR 13 2007

Impressions of Vancouver: Disciples of the Book Arts This exhibit offers a collection of im(press)ions not only of the artists and artisans at work in the Vancouver region but also of the numerous facets of the art itself. The curators have selected some of Vancouver's foremost practitioners whose deft hands, creative ingenuity, and keen aesthetic sensibilities have made the region so rich in bookmaking talent. At the Bruce Peel Special Collections Library. <http://www.library.ualberta.ca/specialcollections/exhibits/impressions.html>

UNTIL MAR 24 2007

Impressions from Turkey: Recent Prints by Aysegül Izer and Emre Senan The Department of Art and Design at the U of A is presents Impressions from Turkey: Recent Prints by Aysegül Izer and Emre Senan. This exhibition represents the department's first project with artists and designers from Turkey and its first exchange with the Mimar Sinan University of Fine Arts in Istanbul. The visit of Izer and Senan introduces us to their practices in the teaching of art and design at the university level and opens up possibilities for future exchange

activities between our institutions for both fine arts and design students and faculty. Room 1-1 Fine Arts Building Gallery <http://www.events.ualberta.ca>

UNTIL MAR 24 2007

Semaine Nationale de la Francophonie La francophonie, j'en fais partie! On the occasion of the fifteenth national francophonie week, the theme "Francophonie, I am a part of it" unites all francophone educational institutions around the world. This year Campus Saint-Jean has chosen to highlight Lebanon as a country which shares a francophone heritage. Most activities are free but due to the recent events in Lebanon, revenues from some activities will be used to establish scholarships for Lebanese students wishing to study at Campus Saint-Jean. Room 2-73 Pavillion McMahon www.csj.ualberta.ca/cerf

MAR 16 2007

Breakfast Roundtable for Students - Spring 2007 President Samarasekera invites students to join her for breakfast and an open discussion on topics of interest to you. 7:30 - 8:30 a.m. Saskatchewan Room, Faculty Club Faculty Club <http://www.president.ualberta.ca/eventsvp.cfm?nocache&event=1011>

MAR 16 - 17 2007

Augustana Art Studio Performance Grant Exhibition Augustana students receiving art scholarships present their work in a student exhibition. The exhibit will open on Friday at 10 a.m. and continue until 5 p.m. with remarks and award announcements at 2 p.m. It will remain open on Saturday from 11 a.m. to 4 p.m. A030 (Art Studio) Auxiliary Building, Augustana Campus

MAR 16 2007

Nurses in Partnership Series: For Love or For Money? Nurses, academia, and global citizenship: The Canadian Nurses Association promotes a social justice model for nurses involved in international work. Can nurses in academia fulfill the call of social justice in the entrepreneurial environment of the 21st century university? Panelists for this discussion are: Dr. June Webber, director of international policy and development, Canadian Nurses Association; Dr. Britta Baron, vice-provost and associate vice-president (International), U of A; and Dr. D. Lynn Skillen, professor and director, International Nursing Office, Faculty of Nursing, U of A 12 - 2 p.m. 6-107 Clinical Sciences <http://www.nursing.ualberta.ca/homepage.nsf/all/6A4B6757FC09FAF08725710900613DD3>

Tree size distribution across forest communities Fangliang He, Department of Renewable Resources, U of A is presenting a seminar on "Tree size distribution across forest communities". 12 noon M-149 Biological Sciences <http://www.biology.ualberta.ca/courses/biol631/index.php?Page=326>

Does Qualitative Research Count?: Standards for Quality Research Featuring Dr. Pirkko Markula. As the popularity of qualitative research has increased, there has also been a proliferation of methods and ways of conducting this type of research. Dr. Markula aims to assess the quality of qualitative research to ask "how do

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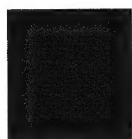


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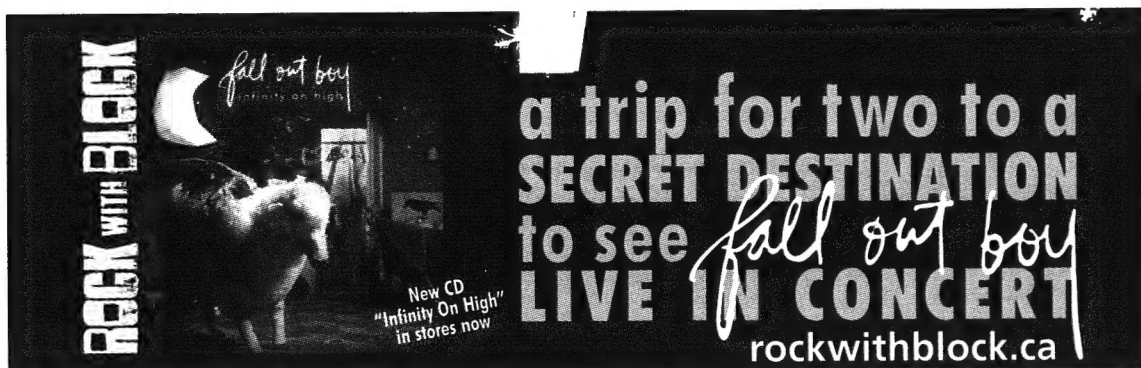
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GFC COMMITTEES AND COMMITTEES TO WHICH GFC ELECTS MEMBERS: ACADEMIC AND SUPPORT STAFF NEEDED

The terms of office of a number of academic and support staff members serving on General Faculties Council (GFC) standing committees and on committees and appeal boards to which GFC elects members will expire on June 30, 2007. The GFC Nominating Committee (NC) is seeking academic and support staff members to fill the following vacancies for terms normally 3 years in length, beginning July 1, 2007.

| GFC Committee | Staff Vacancies | Meeting Times |
|---|---|---|
| ACADEMIC PLANNING COMMITTEE (APC): GFC's senior committee dealing with academic, financial and planning issues. | ONE academic staff member (from Category A1.0) who is a member of GFC ONE Dean ONE Department Chair | 2:00 pm/2 nd & 4 th Wednesdays |
| ACADEMIC STANDARDS COMMITTEE (ASC): GFC committee dealing with admissions, academic standing, transfer and examination policies and other related issues. | ONE academic staff member (from Categories A1.1, A1.5, A1.6) | 9:00 am/3 rd Thursday |
| CAMPUS LAW REVIEW COMMITTEE (CLRC): Reviews Code of Student Behaviour, Code of Applicant Behaviour and Residence Community Standards. | ONE academic staff member (from Categories A1.1, A1.5, A1.6) | 9:30 am/last Thursday |
| COMMITTEE ON THE LEARNING ENVIRONMENT (CLE): Promotes an optimal learning environment in alignment with guiding documents of the University of Alberta. | TWO academic staff members (from Category A1.0), one of whom must be a member of GFC | 2:00 pm/1 st Wednesday |
| FACILITIES DEVELOPMENT COMMITTEE (FDC): Recommends on planning and use of facilities, proposed buildings, use of land, parking and transportation. | TWO academic staff members (from Category A1.0) who are NOT from the Faculties of Physical Education and Recreation, Engineering, Medicine and Dentistry or Science as these Faculties have representation on FDC. | 9:00 am/3 rd Friday |
| UNDERGRADUATE AWARDS AND SCHOLARSHIP COMMITTEE (UASC): Approves new awards for undergraduate students including selection and eligibility. | ONE academic staff member (from Categories A1.1, A1.5, A1.6) | 2:00 pm/ normally 2 nd Tuesday (4 times a year) |
| UNIVERSITY TEACHING AWARDS (UTAC): Adjudicates the Rutherford Award for Excellence in Undergraduate Teaching, the William Hardy Alexander Award for Excellence in Sessional Teaching, and the Teaching Unit Award. | ONE academic staff member (from Categories A1.1, A1.5 or A1.6) who is NOT from the Faculties of Arts, Business, Science or Agriculture, Forestry, and Home Economics as these Faculties have representation on UTAC | Normally 3 times a year (Oct, Mar and Apr) |
| PROGRAM REDUCTION AND DELETION REVIEW COMMITTEE (PRDRC): Reviews reorganization (reduction, deletion or transfer) of programs. | FOUR academic staff members (from Category A1.0) | Scheduled as required |
| COUNCIL ON STUDENT AFFAIRS (COSA): The aim of the Council is the betterment of the quality of student life at the University of Alberta. | ONE academic staff member (from Categories A1.1, A1.5, A1.6) who is a member of GFC | Afternoons/normally 3 rd Monday (September to March) |
| ACADEMIC APPEALS COMMITTEE (AAC) / UNIVERSITY APPEAL BOARD (UAB): AAC hears and decides student appeals regarding academic standing. UAB hears and decides student appeals regarding disciplinary decisions of the Discipline Officer and/or Dean as made under the Code of Student Behaviour. | AAC: FOUR academic staff members (on post-retirement contracts or from Categories A1.1, A1.5 or A1.6) UAB: THREE academic staff members (from Category A1.0) | Scheduled as required |

| Committee/Body to Which GFC Elects Members | Staff Vacancies | Meeting Times |
|---|--|---|
| MUSEUMS POLICY AND PLANNING COMMITTEE: Advises University administration and governance bodies on matters relating to the University of Alberta Museums. | TWO staff members (from Categories A1.0 or B1.0) | Minimum of three meetings a year |
| DEPARTMENT CHAIR SELECTION COMMITTEES: Members are chosen in rotation from a panel of 15 to serve on Department Chair selection committees. | SEVEN academic staff members (from Categories A1.1, A1.5 or A1.6) | Constituted as Department Chair selection processes are initiated |
| SENATE: Links with the community and is an independent advisory body of community leaders. | TWO academic staff members (from Categories A1.1, A1.5 or A1.6) MUST be members of GFC | 4 times a year |
| EXTENSION FACULTY COUNCIL: Represents University interests on the Faculty of Extension Council. | ONE academic staff member (from Category A1.0 exclusive of the Faculty of Extension) | Average of 6 times a year |
| HENRY MARSHALL TORY CHAIRS SELECTION COMMITTEE | ONE academic staff member (from Categories A1.1, A1.5, A1.6) | Constituted when needed |
| UNIVERSITY PROFESSORSHIP ADVISORY SELECTION COMMITTEE | TWO academic staff members (from Categories A1.1, A1.5) | Constituted when needed |

Information about GFC committees is available on the University Governance website at <http://www.ualberta.ca/secretariat/>. For definitions of Categories of Staff, please go to the above-noted website and access the GFC Policy Manual, Section 5.1.4. All nominations, or expressions of interest, should be accompanied by a brief resume or biographical sketch and directed to Ms V Ogilvy, Secretary, GFC Nominating Committee, Room 2-5 University Hall (492-4715; vanessa.ogilvy@ualberta.ca) by Friday, March 30, 2007.

we set the standards for good qualitative research projects?" Everyone welcome! 3 p.m. E121 Physical Education and Recreation Centre, Van Vliet Centre.

CAP Lecture Neurophysics: Unraveling Your Brain's Dynamics. Speaker: André Longtin Université d'Ottawa. Physicists have long been involved in many aspects of brain research. The development, challenges and great promise of Neurophysics are the focus of this CAP Lecture. *Department colloquia are intended to benefit all students and staff. 3:15 - 4 p.m. 3-21 CEB <http://www.phys.ualberta.ca/>

Department of Economics Micro Seminar Jean-Etienne Bettignies (UBC) "Corporate Venturing, Allocation of Talent, and Competition for Star Managers" (joint work with Gilles Chemla) A paper is available. 3:30 p.m. 8-22 Tory Building

MAR 16 - 17 2007

National Francophonie Week Lecture on the history of Lebanon (bilingual) followed by a round table with prominent guest speakers, traditional music on the "Oud" will end the evening. Show of Lebanese folk dance by the group Arabian Nights, followed by a dinner with traditional Lebanese dishes (\$25). All proceeds to a scholarship fund for international students. 6 - 11 p.m. 1-07 Pavillion Lacerte Campus Saint-Jean. <http://www.uofaweb.ualberta.ca/cerfi/pdfs/Programme2007.pdf>

MAR 16 2007

National Film Board Presentation Une école sans frontières / A school without borders. Directed by Nadine Valcin, produced by Claudette Jaiko (NFB), 2004, 51 min. French version will be shown. Followed by a discussion on the topic of multiculturalism in school settings. For information on the film please visit the NFB website at www.nfb.ca 7 - 8:30 p.m. Auditorium Pavillion McMahon Campus Saint-Jean

MAR 17 2007

Annual History of Medicine Day This event will showcase some of the research being conducted by U of A students engaged in topics related to medical history from a variety of faculties and departments. Students will present research and learn about other subjects and approaches to the history of health and medicine. 8 a.m. - 5 p.m. 207 Heritage Medical Research Centre <http://www.uofaweb.ualberta.ca/historyandclassics/HistMedDay.cfm>

Fat Taxes and Thin Subsidies: Is There a Role for Government in Tackling Obesity and Dietary Disease? Guest Scholar: Dr. Sean B. Cash, Assistant Professor, Department of Rural Economy Moderator: Dr. Martin Tweedale, Professor Emeritus, Philosophy 2 - 3:30 p.m. <http://www.uofaweb.ualberta.ca/publicaffairs/philosopher-scape.cfm>

4th Annual Gala & Fundraiser 2007 - U of A Laboratory for Vertebrate Paleontology The evening's events will include cocktails, dinner, a keynote address by doctoral student Takuya Konishi, and research presentations (posters and specimens) by other vertebrate paleontology graduate students. On display will be a number of objects purchased with funds raised by the last three Galas, and fossils recovered during recent fieldwork in and around Edmonton. The evening will also promote a number of new books by Alberta paleontologists. For tickets or to donate silent auction items, please Dr. Michael Caldwell (492-3458 or mw.caldwell@ualberta.ca). Gifting may be made via Claudia Wood (492-6662 or claudia.wood@ualberta.ca). 6:30 - 11 p.m. Winspear Room Faculty Club <http://www.biology.ualberta.ca>

Northern Alberta Honor Band Northern Alberta Honor Band Angela Schroeder, conductor. 7 p.m. Arts and Convocation Hall <http://www.uofaweb.ualberta.ca/music/briefs.cfm>

Wearin' o' the Green: An Evening of Celtic Entertainment with The Augustana Choir and Celtic musicians! Celebrate St. Patrick's Day with Celtic entertainment and a Danny Boy Celtic Idol Singing Competition - join the Augustana Choir and friends! Desserts and hors d'oeuvres provided by the Lefse House. Tickets available in advance at the Augustana Bookstore and Candler Art Gallery in downtown Camrose. Purchases from out of town guests by credit card should be directed to (780) 679-1503. Limited seating - get your tickets early! 7:30 p.m. Faith & Life Chapel Faith and Life Centre, Augustana Campus.

MAR 18 2007

Science Sunday Look, touch, create, discover! The U of A Museums presents the eighth annual Science Sunday, an educational and entertaining event for kids aged 5-12. Through fun, hands-on activities, kids discover the wonders of science in museums and collections. Join us and explore the formation of trace fossils, learn how to read animal tracks, unlock the mysteries of meteorites, and so much more. Admission by donation. Info: Call Museums and Collections Services at 492-5834 or visit www.museums.ualberta.ca. 12 - 4 p.m. Earth Sciences <http://www.museums.ualberta.ca/wel>

come.htm

Ol' Tyme Skating Party featuring the U of A Concert Band Bring your family and friends and come and join us at the Clare Drake Arena for an afternoon of skating, fun on-ice activities and light refreshments. 2:45 - 4:45 p.m. Dressing Rooms 5 & 6 Clare Drake Arena <http://www.campusrec.ualberta.ca>

Camrose and District Community Band Concert The Camrose and District Community Band will perform a variety of selections, from standard concert band literature and marches, to jazz and movie themes. The band is comprised of many Augustana students taking the band course for credit and other students who are auditing as well as music enthusiasts and musicians from Camrose and area. Silver collection at the door. 3 p.m. Faith & Life Chapel Faith and Life Centre, Augustana Campus.

MAR 19 2007

Visiting Lecturer James DiRenzo, PhD assistant professor of pharmacology Dartmouth Medical School Scientific, director of the comprehensive breast program, Norris Cotton Cancer Centre Title: Reciprocal Interactions Between TP63 and Hedgehog Signaling in the Mammary Regenerative Cycle 9:30 - 10:30 a.m. 510 Medical Sciences Building Aberhart Centre <http://www.ualberta.ca/cellbiology>

'Race', Equality and the Supreme Court of Canada by Nisha Nath On Jan. 29 2002, Supreme Court of Canada Chief Justice Beverley McLachlin delivered an address entitled Racism and the Law: The Canadian Experience to the Faculty of Law at the University of Toronto. In this address, Chief Justice McLachlin asserts that recent Supreme Court judgments are based on an ethic of substantive racial equality, and that the approach developed by the court is leading us in the 'right' direction. In this talk I test Chief Justice McLachlin's assertion by thinking through 'race', radicalization, and substantive equality in the context of three legal cases mentioned in her address. 12:15 - 1:45 p.m. 7-114 Education North.

MAR 20 2007

Website Accessibility and Adaptive Technology Join us to learn about designing and building accessible websites, web applications and software. Watch demos of various tools and technologies that aid people of various abilities to use the Web. 12:30 p.m. 333 Computing Science Centre <http://www.cs.ualberta.ca/events/details.php?id=693>

Open Access: The Sea Change in Scholarly Publishing. A Forum with Dr. John Willinsky Dr. Willinsky proposes that current changes in scholarly publishing are poised to increase the global circulation of knowledge, while improving its scholarly and public quality. He will discuss ways in which the publishing choices that faculty and graduate students make can extend the contribution and reach of their work. He will also highlight the Open Journal Systems software, a system which can reduce the economic and energy demands of journal publishing, while adding to the rigour and coherence of the academic enterprise. This two-part forum is open to all; registration is required, at <http://www.library.ualberta.ca/oaforum/>. 1:30 p.m. Horowitz Theatre.

Welcome to the Reel World - Trading Women Trading Women enters the worlds of brothel owners, trafficked girls, voluntary sex workers, corrupt police and anxious politicians. This documentary investigates the trade in minority girls and women from the hill tribes of Burma, Laos and China, into the Thai sex industry and the international community's response to the issue. 5 p.m. 325 CEB http://www.international.ualberta.ca/global_events.php?id=201

Electrical and Computer Engineering Alumni Reception Join other Edmonton-area U of A Engineering alumni and friends of the Faculty as we pay tribute to all of you who carry on the great tradition of the U of A Engineer. Dr. David Lynch, Dean of Engineering, looks forward to meeting you and updating you on the Faculty's recent successes and plans for future growth. 5:30 - 7:30 p.m. Engineering Teaching and Learning Complex (ETLC)

MAR 21 - 23 2007

The Greying Nation: Transitions of care in later life The Greying Nation conference will address how the health-care sector can adapt care to the changing needs of the population in the later stages of the life cycle. Conference topics will include: models of care, service delivery and education, changing needs of an aging society, innovative technologies and perspectives on aging as expressed through the visual arts. <http://www.capitalhealth.ca/greyingnation>

MAR 21 2007

Public Health Sciences Grand Rounds Dr. Kay Teschke, University of British Columbia professor, Department of Health Care and Epidemiology,

University of British Columbia Topic: Cycling as a Mode of Urban Transport: Opinions, Politics and Research Issues 12 - 1 p.m. 2-117 Clinical Sciences <http://www.phs.ualberta.ca/>

University Teaching Services Integrating Teaching and Research: What Do We Know? The aim of this presentation is to look at how we can develop a deeper understanding of the relationship between teaching and research at an institutional level. Presenter: Angela Brew, Institute for Teaching and Learning, The University of Sydney, Australia. 3 - 4:30 p.m. CAB 243 Central Academic Building <http://www.ualberta.ca/UTS/>

Frederick W. Pheasey Lecture in Engineering Ethics and Reception The inaugural Frederick W. Pheasey Lecture in Engineering Ethics will be delivered by Gwyn Morgan (Mechanical '67), founder and former president and CEO of EnCana, in the Engineering Teaching and Learning Complex Solarium. 4:30 - 5:30 p.m. 01-001 Reception to follow.

Evolving Equality: Hate Crimes & Human Rights A presentation by Sergeant Robinder Gill of the Edmonton Police Service's Hate and Bias Crime Unit, and Kristopher Wells, member of the Edmonton Police Chief's Advisory Council. This free workshop is in recognition of the International Day for the Elimination of Racial Discrimination. It is open to the public and deals with the hidden and overt symbols of racial discrimination and other forms of prejudice and how to create a safer community. 5 - 6:30 p.m. Room 165 Education South Education Centre.

MAR 22 - 23 2007

Injury Research Data Workshop The Data-Day World of Injury Research This two-day workshop is intended for researchers and practitioners involved in prevention, control, and research activities related to injury, risk, and safety. Please refer to the link below for a registration form. Registration fee is \$315 + GST. 9 a.m. - 4 p.m. Maple Lister Centre http://www.acicr.ualberta.ca/documents/Injury_DATA_Workshop.pdf

MAR 22 2007

Walter Johns Alumni Circle Come back to campus for a regular sampling of the vibrant intellectual and cultural life of the university. The Walter Johns Alumni Circle features lectures by top faculty members and an opportunity to meet and mingle with fellow alumni. Don Kuiken of the Department of Psychology will discuss evidence that dreams in general transform experience in much the same way that we are moved to insights through poetry. And nephrology professor Marcello Tonelli will discuss the global burden of kidney disease and its complications, as well as outlining how his work with the U of A's Kidney Disease Research Group is helping to address the problem. 10 a.m. - 12 noon Aon Boardroom Alumni House <http://www.uofaweb.ualberta.ca/alumnieducation/nav01.cfm?nav01=14319>

Lunch & Learn: Into the Looking Glass - a tool for self discovery Reflecting on our behaviour is one form of feedback. Join us as we explore how reflective practice or journaling can benefit you, your family and your workplace. Look at different techniques and templates which provoke intention and thought. These sessions are free for all U of A staff. Register online at www.learningshop.ualberta.ca 12:05 - 12:55 p.m. Heritage Lounge Athabasca Hall <http://www.learningshop.ualberta.ca>

Renewable Resources Seminar Series Schedule Dr. Glen Armstrong, Department of Renewable Resources, will present a seminar entitled "Unintended consequences of reforestation policies: a forest-level analysis". 12:30 - 2 p.m. Room 236 Earth Sciences Building Earth Sciences http://www.rr.ualberta.ca/What's%20Happening/Seminars_lectures/Index.asp?Page=Index

Antibiotic Production and Export in Streptomyces coelicolor Dr. Justin Nodwell, McMaster University, is presenting a seminar on 'Antibiotic Production and Export in Streptomyces coelicolor'. 3:30 p.m. M-149 Biological Sciences <http://www.biology.ualberta.ca/courses/micrb406/index.php?Page=437>

Dr. Kiera Lander - "Decolonizing the Discipline: Indigenous Peoples and Political Science" & Dr Isabel Altamirano-Jimenez - "Indigenous Women and Feminism: Acting in the Political Space" The emergence of aboriginal peoples as an object of inquiry in the discipline of political science reflects their becoming active (or at least noticed) in the politics of the colonizer. Political science's ability to understand indigenous politics is limited because its knowledge can only view politics through western-Eurocentric eyes within the disciplinary boundaries of political science. Political science must be destabilized and decolonized. In this paper will engage this process of decolonization and destabilization of the discipline, while offering my thoughts as to how we can begin to study and explain indigenous politics as indigenous. Dr. Isabel Altamirano-Jimenez Topic: Indigenous Women and Feminism: Acting in the Political Space Abstract: Despite appearances to the contrary, indigenous women are complex fig-

ures to feminists. Altamirano-Jimenez argues that developing a native feminist politics focused on self-government and self-determination requires a more critical analysis of indigenous activists' responses to feminism and sexism within indigenous communities. Supported by the Employment Equity Discretionary Fund, Office of Human Rights in recognition of the International Day for the Elimination of Racial Discrimination (March 21) 3:30 p.m. 14-28 Tory Building. http://www.uofaweb.ualberta.ca/polisci/SpeakersSeries_0607.cfm

Hydrocarbon Thermophysical Properties: an unexpected frontier Dr. John Shaw, Department of Chemical Engineering U of A Hydrocarbon feed stocks such as bitumen and heavy oil from Canada and heavy oil from Mexico and Venezuela have grown from curiosities to comprise key energy resources for the North American market, with production rates exceeding 5 million barrels per day. The processes used for their production and refining can be surprisingly inefficient. Insights gained and lessons learned from our recent research underscore the challenge ahead. 3:30 - 4:30 p.m. 2-002 Engineering Teaching and Learning Complex. <http://www.uofaweb.ualberta.ca/mece/departmentsseminars.cfm>

Institute for United States Policy Studies/ Department of Economics Joint Seminar Charles Kolstad, environmental economist at the Bren School of Environmental Science and Management University of California, Santa Barbara. The lecture topic is TBA 3:30 p.m. 8-22 Tory Building.

John Stuart Mill, Determinism and the Problem of Induction Professor Elijah Millgram, Department of Philosophy, University of Utah 3:30 p.m. 4-29 Humanities Centre <http://uofaweb.ualberta.ca/philosophy>

Entomology 602 Seminar Dr. Paul M. Brakefield, Institute of Ecological and Evolutionary Sciences, Leiden University, Leiden, The Netherlands, will present a seminar entitled "The evolution of plasticity in Bicyclus butterflies" as part of the Entomology 602 Seminar Series. Dr. Brakefield will also be presenting the E.H. Strickland Memorial Lecture. Additional information about the Strickland Lecture may be found at <http://www.biology.ualberta.ca/facilities/strickland/?Page=2439> 4 - 5 p.m. Room TBW-1 Tory Breezeway

Jungian Dream Seminar Jungian Dream Seminar on campus by Dr. Jensen, Jungian analyst candidate (Zurich). An eight-week seminar Cost \$150 + gst for eight sessions. 5 - 6:30 p.m. SUB Room 606 Students' Union Building (SUB) <http://www3.telus.net/public/jensenpm>

MAR 23 2007

CBEEDAC / CABREE Applied Energy Seminar 8-22 Tory Building.

Departmental Seminar Dr. Evan Cooch, Department of Natural Resources, Cornell University, will present a seminar entitled "Why, what, and how? Motivation and new methods for ecological monitoring". 12 - 1 p.m. M 149 Biological Sciences http://www.biology.ualberta.ca/news_events/events/index.php

China's Development and China-Canada Co-operation The China Institute invites you to a lecture by Ambassador Lu Shumin, of the Chinese Embassy in Canada. Ambassador Lu will speak on: China's Development and China-Canada Co-operation 3:30 p.m. Room 150 TELUS Centre

E.H. Strickland Memorial Lecture and Banquet Dr. Paul M. Brakefield, Chair in Evolutionary Biology at the Institute of Ecological and Evolutionary Sciences, Leiden University, Leiden, The Netherlands. Lecture "Evo-Devo of butterfly wings and the occupancy of morphospace" takes place at 4 p.m. Room 3-27 Earth Sciences Building. A banquet takes place at the Faculty Club at 6 p.m. Contact Dr. Jens Roland at jroland@ualberta.ca or Dr. Maya Evenden at mevenden@ualberta.ca by March 19 for banquet tickets. 4 - 5 p.m. 3-27 Earth Sciences <http://www.biology.ualberta.ca/facilities/strickland/?Page=2439>


Milton Schlosser (Piano), Tanya Prochazka (Cello), and Guillaume Tardif (Violin) - in Concert! A recital of piano trio music featuring the compositions of Fauré, Debussy, and Ravel. Tickets are \$12 (adults); \$8 (students/ seniors); \$30 (family). Available at the door. 8 p.m. Faith & Life Chapel Faith and Life Centre Augustana Campus.

U of A Mixed Chorus 63rd Annual Spring Concert (Augustana) Under the direction of Dr. Bob de Frece, the Mixed Chorus's 2007 spring concert promises to shake winter out of your bones. Performing Harry Somers's Two songs for the coming of Spring, Chesnokov's Duh Tvoy blagi, the music of Walt Disney's The Little Mermaid and many other pieces, the 150 voices of the U of A Mixed Chorus will put spring in your heart. Also featured are the U of A Faculty of Education Handbell Ringers. Tickets are available at the door. All proceeds support the Augustana Choir's spring tour. 7:30 p.m. Chapel Faith and Life Centre, Augustana Campus. <http://www.mixedchorus.ca>

MAR 25 2007

"Auschwitz and the Holocaust" The Wirth

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To request an information/application package, please contact:
Barry Heffernan, Homestay Family Coordinator
Phone: (780) 930-6758 • email: barry.heffernan@epsb.ca

EDMONTON PUBLIC SCHOOLS

Institute proudly presents its annual Toby and Saul Reichert Holocaust Lecture. This year's distinguished speaker is the world renowned author Deborah Dwork. 7 p.m. Main auditorium Telus Centre <http://www.arts.ualberta.ca/wi>

MAR 27 2007

Promising dietary interventions that regulate gut satiety hormones and bridle food intake 11 a.m. - 12 noon Classroom F (2J4.02) University Hospital (Walter C Mackenzie Health Sciences Centre).

Student Entrepreneurship Program Info Session and Lunch Are you a U of A student with an idea or invention that has commercial potential? Join us for a free lunch information session about this new TEC Student Entrepreneurship Program, designed to help graduate students transform their technologies and inventions into successful startup enterprises. Student inventors are matched with MBA students from the School of Business, with industry entrepreneurs and TEC Edmonton experts in order to determine how best to bring the technology to market. Register at <http://www.tecedmonton.com> for this free lunch and learn session. 12 - 1 p.m. M229 Biological Sciences.

University Teaching Services Teaching-Enhanced Research. How is teaching used in research? How does it enhance research? In this session, the presenter will explore factors that facilitate or inhibit the influence of teaching on research. The presenter will also review what studies on the relationship between teaching and research say about how academics think teaching influences their research. The session will conclude with implications for how we need to think about research if future higher education is to encompass inclusive scholarly knowledge-building communities. Presenter: Angela Brew, Institute for Teaching and Learning, The University of Sydney, Australia 3:30 - 5 p.m. CAB 243 Central Academic Building <http://www.ualberta.ca/UTS/>

AFNS seminar series: Charting the future of agriculture: Imagining Food & Agriculture Tomorrow - 'Peering into the Fog of the Future' Jerry Bouma Senior Partner & Founder Toma & Bouma Management Consultants present this topic. (Refreshments & Mixer to follow) 4 p.m. Room 150 Telus Centre <http://www.afns.ualberta.ca/Index.asp?page=Events&events=559>

Welcome to the Reel World - Slavery: A Global Investigation Inspired by the book Disposable People, this film explores three separate industries where slaves are still to be found: the

cocoa industry in the Ivory Coast, domestic slavery in Britain and the USA, and the carpet industry in northern India. Filmmakers Brian Edwards and Kate Blewett actually buy slaves in Africa and help free child slaves in India. The film exposes slavery from the developing world to the home of a World Bank official in Washington, D.C. Small, personal stories of slavery are woven together to tell the larger story of slavery in the global economy. 5 p.m. 325 CEB http://www.international.ualberta.ca/global_events.php?id=201

MACT and MINT information session Interested in earning your master's degree that specifies in technology and communication? Attend our information session where presentations on the Master of Science in Internetworking and the Master of Arts in Communications and Technology will be given. 6:30 - 8 p.m. 3-40 Extension Centre <http://www.extension.ualberta.ca>

MAR 28 2007

It's All About Fat Symposium Speakers include: Bruce McDonald - Keeping Trans Fats Out of Our Diet, Helen Bishop MacDonald - The Benefits of Milk Fats. Two other speakers and topics to be announced. Fourth-year nutrition students' research posters will be on display. 1:30 a.m. - 4:30 p.m. Horowitz Theatre

Phenotypic plasticity in sea urchin larvae: Environmental stress reveals true developmental potential Alex Eaves, PhD candidate, Department of Biological Sciences, U of A is presenting this seminar. 12 p.m. M-141 Biological Sciences <http://www.biology.ualberta.ca/courses/biol642/index.php?Page=329>

Public Health Sciences Grand Rounds Speaker - Dr. Gian Jhangri Topic TBA 12 - 1 p.m. Room 2-117 Clinical Sciences www.phs.ualberta.ca

Student Entrepreneurship Program Info Session and Lunch Are you a U of A student with an idea or invention that has commercial potential? Join us for a free lunch information session about this new TEC Student Entrepreneurship Program, designed to help graduate students transform their technologies and inventions into successful startup enterprises. Student inventors are matched with MBA students from the School of Business, with industry entrepreneurs and TEC Edmonton experts in order to determine how best to bring the technology to market. Register t <http://www.tecedmonton.com> for this free lunch and learn session. 12 - 1 p.m. M229 Biological Sciences. 12 - 1 p.m. 2-135 Ed North Education Centre <http://www.tecedmonton.com>

Lunch & Learn: Cook it up Healthy! Do you find yourself looking into your fridge at the end of a long day with no idea what to have for supper? Looking for quick & easy ideas on how to plan and prepare healthy meals? This Nutrition Month, join us as we learn about the benefits of cooking and acquire tools to help you fit easy, healthy meals into your busy schedule. These sessions are free for all U of A staff. Register online at www.learningshop.ualberta.ca 12:05 - 12:55 p.m. Heritage Lounge Athabasca Hall <http://www.learningshop.ualberta.ca>

University Teaching Services Microteaching for the Instructional Skills Program. Microteaching sessions, offered through University Teaching Services allow Instructional Skills (IS) Program participants to demonstrate their teaching skills to peers. Participants of the IS Program who have completed a minimum of 25 hours of workshops on teaching and learning are invited to give a 15-minute microteaching presentation on a topic of interest to and understandable by a diverse audience. Presentations must be structured (introduction, body, conclusion) and rehearsed to fit the 15-minute time slot. If you wish your presentation to be videotaped, please bring a blank VHS tape. Two microteaching sessions are required for successful completion of the IS Program. Register in advance to reserve your place. The IS program requires five participants per microteaching session. Presenters: IS program participants 1 - 3 p.m. CAB 215 <http://www.ualberta.ca/UTS/>

WestGrid Seminar Series MPI Special Topics: Monte-Carlo Simulations. Intro to naturally parallel applications. Includes focus on checkpointing and restartable jobs. 1:30 - 2:30 p.m. 315 General Services Building <http://www.westgrid.ca>

MAR 29 2007

One Survivor Remembers AGAPE Learning Over Lunch Social Justice Video Series. An Academy Award winning documentary that tells the unforgettable story of Gerda Weissmann Klein's six-year ordeal as a victim of Nazi cruelty. Klein describes her years in Nazi labor camps and months on a forced death march. Though her experience was horrifying, Klein also remembers wonderful acts of decency and normalcy - testaments to the greatness of humanity. Discussant: Gayle Tallman, Jewish Federation/JCC of Edmonton AGAPE is a focus group set up to consider issues in relation to sex, sexual, and gender differences in education and culture. It is designed to meet the needs of lesbian, gay, bisexual, trans-identified, queer and allied

undergraduate and graduate students, faculty, and staff at the U of A. If you have a question about Agape or the Social Justice Video Series, e-mail Dr. André P. Grace at andre.grace@ualberta.ca or Kris Wells at kwells@ualberta.ca or contact the Agape Project Office at 492-0772 or visit us at 5-181K in the Education North Building. 12 - 1 p.m. 7-102 Education North Education Centre <http://www.uofaweb.ualberta.ca/education/pdfs/AGAPE2006-07Poster.pdf>

Student Entrepreneurship Program Info Session and Lunch Are you a U of A student with an idea or invention that has commercial potential? Join us for a free lunch information session about this new TEC Student Entrepreneurship Program, designed to help graduate students transform their technologies and inventions into successful startup enterprises. Student inventors are matched with MBA students from the School of Business, with industry entrepreneurs and TEC Edmonton experts in order to determine how best to bring the technology to market. Register t <http://www.tecedmonton.com> for this free lunch and learn session. 12 - 1 p.m. M229 Biological Sciences. 12 - 1 p.m. ETLCE1-013 Engineering Teaching and Learning Complex (ETLC) <http://www.uofaweb.ualberta.ca/tecedmonton/>

After the Doha Round: Scenarios for the World Trading System The evolution of world trade over the past half century and the failure of Doha due to its overemphasis on agricultural liberalization and the insufficient emphasis on issues of manufacturing and services will be discussed. The US trade policy scene will be examined. 3 p.m. Stollery Centre, 5th Floor Business <http://www.bus.ualberta.ca/wcer/events.htm>

"Demonstratives and Indirect Perceptual Realism" Professor Derek Brown, Department of Philosophy U of A 3:30 p.m. 4-29 Humanities Centre <http://www.uofaweb.ualberta.ca/philosophy>

Dr. Falguni A Sheth, "The Violence of Law: Race, Culture and Exclusion" In the five years since September 11, 2001, Muslim men and women have been subjected to remarkably cruel treatment in the name of stopping or preventing terrorist activity. What are their transgressions which engender such treatment? Sheth suggests one of the Western world's more urgent concerns is the danger of radical cultural heterogeneity or the threat to the safety of cultural homogeneity. For more info, contact Dr. Malinda Smith, co-ordinator, email: Malinda.smith@ualberta.ca, 780.492.5380 / Nisha Nath, email: nnath@ualberta.ca / Department of Political Science, 780.492.3429. Concluded ses-

ad feature

Creative Expression gets top billing at CAUCE

Tom Jackson and Irene Karpiak revealed as Keynote Speakers

By CAUCE 2007 conference staff

Storytelling has come out as a strong sub-theme of this year's Canadian Association for University Continuing Education 2007 conference at the Westin Hotel Edmonton slated for May 30 - June 2 and hosted by the Faculty of Extension.

"I think storytelling or biography or creative expression is an idea whose time has come again," said Dr. Dennis Foth, Chair of the conference. "People are interested in their social, spiritual, psychological aspects and storytelling is a great way to get in touch with themselves in a more holistic way."

Foth and his programming committee put a lot of thought and effort into identifying keynoters who would ignite and inspire the imagination of their conference participants and Tom Jackson and Irene Karpiak quickly rose to the top tier.

Tom Jackson is well known to Canadians as an accomplished musician and actor dedicated to helping the less fortunate. Fans of the CBC hit television series *North of 60* will know him as Chief Peter Kenidi, a role he portrayed for six seasons. As a singer and songwriter, Tom has recorded 13 albums, two of which have received Juno nominations. His rich bass baritone is recognizable to country music fans and concertgoers across the country.

Born on the One Arrow reserve in Saskatchewan and raised in Winnipeg, Tom left school at the age of 15 and spent seven years living on the back streets of Winnipeg. This experience built the foundation of his character - tenacity, leadership, determination to succeed and an altruistic capacity to care for others.

Irene Karpiak is Associate Professor of Adult and Higher Education at the University of Oklahoma. Based on a decade of work on life-story and life-writing, she believes these to have transformative qualities.

In her keynote speech, Karpiak will explore the use of personal narrative and how it has the power to shape our perspective, deepen our connections, and create a space of learning, growth and change.

"We are absolutely thrilled to have such strong speakers headlining the conference."


The keynote announcement comes just three weeks before the Early Bird Registration fee deadline of March 31.

"I think Tom and Irene will both be a great draw for our registrants," said Foth, adding the two will highlight how creative expression draws people together and bridges the superficial differences between people of diverse experiences and cultures.

In addition to these two keynoters, CAUCE 2007 has garnered a lot of interest in the industry attracting a record 53 abstract submissions from all over Canada and from as far away as Hong Kong, Australia, Germany, South Africa, and Egypt.

"I think the growth is in the international submissions and that's wonderful because it means we are broadening our scope, so I'm delighted the numbers have increased," said Foth.

Registration and information can be found on their website at www.cauce2007.ca.



►► CAUCE 2007
PORTRAITS OF TOMORROW: LANDSCAPES, LEARNERS, LEADERS

54th. Annual Canadian Association for University Continuing Education Conference

May 30 - June 2, 2007
The Westin, Edmonton

Register Now!
Special Early Bird Conference
Fee Deadline *March 31, 2007!*
On-line registration at
www.cauce2007.ca

Conference Highlights

- Keynote Speakers
TOM JACKSON - Musician and Actor
IRENE KARPIAK - Associate Professor, University of Oklahoma
- 52 concurrent and poster presentations
- Spectacular social activities
- Many networking opportunities
- Marketing and Programming Awards Luncheon
- Closing Banquet

Hosted by The Faculty of Extension

sions are now available on the Department website in podcasting and video-streaming formats, thanks to the support of the Arts Resource Centre and Academic Information and Communications Technology.

Self-Assembled Nanotubes: A Scaffold for Tissue Engineering and for Drug Display/Delivery Dr. Hicham Feniri senior research officer supramolecular nanoscale assembly program leader National Institute for Nanotechnology. The lowered average age of patients requiring bone tissue implants demands longer life expectancy and durability from such devices. This increasing need led to new formulations based on high performance nanomaterials. Nanotubes in particular have shown great promise because they (1) have sizes that approach biological structures and (2) possess efficient channels for displaying chemistries relevant to living systems at high density and well-controlled spatial distribution. Rosette nanotubes (RNTs) are a new class of soft biocompatible organic nanomaterials with tunable dimensions and properties. This lecture will discuss (a) the design of the RNTs, (b) their effect on osteoblast cell adhesion to titanium implant materials, (c) their role as protein substitute. 3:30 - 4:30 p.m. 2-002 Engineering Teaching and Learning Complex <http://www.uofaweb.ualberta.ca/mece/departmentseminars.cfm>

Nurses in Partnership Series: Questions of Nurse Retention in the Workforce There are many issues facing nurses today that may cause them to leave the workforce. In this session, we will address topics such as job satisfaction, salary, shift work, and moral distress. Panelists include: Dr. Wendy Austin, professor, Faculty of Nursing, U of A; Kim Campbell, director of regulatory services, College and Association of Registered Nurses of Alberta; Dr. Greta Cummings, professor, Faculty of Nursing, U of A; Bev Dick, vice president, United Nurses of Alberta; Cathy Giblin, regional manager for nursing affairs, Capital Health 4- 6 p.m. 2-115 Clinical Sciences Building.

Climate Change and Aquatic Ecosystems Pole-to-Pole Dr. John Priscu (Montana State U) and Dr. Warwick Vincent (Laval U) will discuss their research and research findings in polar environments 4:30 - 6:30 p.m. 150 TELUS Centre <http://www.ualberta.ca/ERSC>

Moving Towards Inclusive Pedagogies: The Laramie Project, Lord Byng Secondary School, and Lessons in Acceptance Inside/OUT 2006/2007 Speakers Series Profiling LGBTQ-Related Work at the U of A. Moving Towards Inclusive Pedagogies: The Laramie Project, Lord Byng Secondary School, and Lessons in Acceptance. Presenter: Wes D. Pearce, Theatre Department, University of Regina. After each presentation we invite you to join us at the Sugar Bowl (10922 88 Avenue NW) to continue to network and socialize. Inside/OUT is a campus-based network for lesbian, gay, bisexual, trans-identified, queer (LGBTQ) and allied faculty, graduate students, academic, and support staff of the U of A. We also invite undergraduate students and interested members of the community to attend. Inside/OUT is designed to provide a safe and confidential space on campus for LGBTQ persons and their allies to network, socialize, and have fun in a supportive and welcoming environment. For more information regarding Inside/OUT, contact Kristopher Wells or Marjorie Wonham or visit <http://www.mailman.srv.ualberta.ca/mailman/listinfo/inside-out> to join the confidential Inside/OUT listserv. 5 - 6 p.m. 7-152 Education North Education Centre <http://www.uofaweb.ualberta.ca/education/pdfs/InsideOUT200607SpeakersSeriesPoster.pdf>

Forty-First Annual Shevchenko Lecture Peter Potichnyj, professor emeritus of Political Science, McMaster University, will deliver a lecture on "The Ukrainian Insurgent Army (UPA): What Have We Learned 65 Years After Its Founding?" Dr. Potichnyj has written articles and books on Soviet and East European politics and history. He is a leading authority on the Ukrainian Insurgent Army and is editor-in-chief of the documentary series "Litopys UPA". 7 p.m. 129 Education Centre

MAR 30 - 31 2007

Edmonton Aging Symposium The economic and ethical justifications for the development of technologies capable of extending the human lifespan are examined with top researchers in the fields of stem cells, tissue engineering, cancer therapies, neurodegeneration and others, presenting cutting-edge science aimed at repairing the few types of damage that accumulate with age. 7 a.m. - 6 p.m. <http://www.edmontonagingsymposium.com>

MAR 30 2007

Breakfast Roundtable for Academic Staff - Spring 2007 President Samarasekera invites academic staff to join her for breakfast and an open discussion on topics of interest to you. 7:30 - 8:30 a.m., Saskatchewan Room, Faculty Club (11435 Saskatchewan Drive). Space is limited and pre-registration is required. Register online before March 26, to attend <http://www.president.ualberta.ca/eventsrsvp.cfm> Enter code: 1012. For further information, contact Sheila Stosky, 492-1525.

Health Law Institute Seminar Series "From Womb to Tomb: A Role for the Ombudsman" Andre Marin, Ontario Ombudsman 12 - 1:10 p.m. Room 237 Law Centre <http://www.law.ualberta.ca/centres/hli>

Life in the Wrong Places: Microorganisms in Icy Environments John Priscu, professor, Department of Land Resources & Environmental Sciences, Montana State University is presenting a seminar on "Life in the Wrong Places: Microorganisms in Icy Environments." 12 noon M-149, Biological Sciences Building Biological Sciences <http://www.biology.ualberta.ca/courses/biol631/index.php?Page=326>

Jonathan Rodden Jonathan Rodden is Ford International Associate Professor in the Department of Political Science at the Massachusetts Institute of Technology, and Fellow, Center for Advanced Studies in the Behavioural Sciences, in Palo Alto, CA. 3:30 - 5 p.m. 8-22 Tory Building.

3rd annual CSS Charity Classic hockey game Campus Security Services and Lister students face off for the 3rd annual Charity Classic hockey game. This year's proceeds will go towards the Mayerthorpe Fallen Four Memorial Society. 8 - 10 p.m. Clare Drake Arena.

MAR 31 2007

Sangkor (Augustana Women's Chorus) Spring Concert! Sangkor (Augustana Women's Chorus), conducted by Professor Kathleen Corcoran, presents their annual spring concert in an evening performance. Tickets: \$10 (adults); \$7 (students/seniors), available at the door only. 7 p.m. Faith & Life Chapel Faith and Life Centre Augustana Campus.

U of A Mixed Chorus 63rd Annual Spring Concert (Edmonton) Under the direction of Dr. Bob de Frece, the Mixed Chorus's 2007 spring concert promises to shake winter out of your bones. Performing Harry Somers's Two songs for the coming of Spring, Chesnokov's Duh Tvoyn blagi, the music of Walt Disney's The Little Mermaid and many other pieces, the 150 voices of the U of A Mixed Chorus will put spring in your heart. Also featured are the U of A Faculty of Education Handbell Ringers. Tickets are \$18 (adult) and \$12 (student/senior with ID) plus applicable service charges, available from TIX on the Square (toll free 1-877-888-1757) or U of A Student Union Info desks beginning February 5. 8 p.m. <http://www.mixed-chorus.ca>

APR 3 2007

"Impact evaluation of the Oportunidades poverty alleviation program in Mexico: A tool for program redesign" Visiting speaker seminar by Dr. Lynette Neufeld, director, Division of Nutritional Epidemiology, National Institute of Public Health, Mexico 11 a.m. - 12 p.m. 2-115 Clinical Sciences Building.

APR 4 2007

Zebrafish neural patterning Dr. Andrew Waskiewicz, Department of Biological Sciences, U of A is presenting a seminar on "Zebrafish neural patterning". 12 noon M-141, Biological Sciences Building <http://www.biology.ualberta.ca/courses/biol642/index.php?Page=329>

WestGrid Seminar Series MPI Special Topics: PDEs Intro to MPI and domain decomposition: solution of partial differential equations. 1:30 - 2:30 p.m. 315 General Services Building <http://www.westgrid.ca>

Synthetic Biology: A Plan for Engineering Biology, A Public Lecture and Discussion by Drew Endy Drew Endy is a leader in synthetic biology research. He is a fellow in the Department of Biology and the Biological Engineering Division at MIT. He co-founded the MIT Synthetic Biology working group and the Registry of Standard Biological Parts. He is also co-founder of iGEM, the international Genetically Engineered Machine competition, Codon Devices Inc., a venture-funded startup that is working to develop next-generation DNA synthesis technology, and the BioBricks Foundation, a not-for-profit organization that is working to develop legal and economic strategies needed to support open biotechnology. Drew's work has been featured in Economist, Forbes, WIRED, Scientific American and the New York Times. 3 p.m. 150 Telus Centre <http://register.albertaingenuity.ca>

APR 5 2007

Renewable Resources Seminar Series Schedule Dr. J C Cahill, Department of Biological Sciences, U of A will present a seminar entitled "Controls of species diversity in an Alberta grassland." 12:30 - 2 p.m. Room 236 Earth Sciences Building http://www.rr.ualberta.ca/What's%20Happening/Seminars_lectures/Index.asp?Page=Index

Department of Economics Moin Yahya Faculty of Law U of A Use it or Lose it: A Radical Proposal for Patent Law to Deal with Patent Trolls 3:30 p.m. 8-22 Tory Building.

positions

For a complete listing of University of Alberta employment opportunities, see www.careers.ualberta.ca.

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Endowed by the Edmonton Consular Corps Value: \$1,000 plus travel expenses of \$2,500 The Edmonton Consular Ball Scholarship in International Studies was established in 1980 with funds generated by the Edmonton Consular Ball, which was held to mark the 75th anniversary of the province of Alberta. In each of the succeeding years, the Consular Corps contributed proceeds from the annual Ball to the University for the Scholarship.

The scholarship is awarded to graduate or third and fourth year undergraduate students who wish to undertake a summer research project in the area of International Studies. Students from all faculties are encouraged to apply. Two to three scholarships are awarded annually.

Applications are in the form of a letter accompanied by a short essay/proposal (maximum of 3 pages) describing the topic the student wishes to study and how it will benefit the student. The study may focus on any international aspect of the student's discipline. Application package must include: 1) cover letter, 2) brief curriculum vitae (including the student's social insurance number, 3) the faculty and department, year of study, and major area of study) 4) and school transcripts.

Submit applications to:
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University of Alberta International
1204 College Plaza, 8215-112 street
Edmonton, Alberta
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Deadline for Applications: Friday, March 30.

*Applicants will be notified by mail of the Committee's decision by April 30. Winners will be awarded the scholarship at a formal ceremony during the Edmonton Consular Ball on May 26.

**At the conclusion of the study, the completed research project report should be submitted to the Chair, Consular Ball Scholarship Committee for forwarding to the Consular Corps.

FUND FOR SUPPORT OF INTERNATIONAL DEVELOPMENT ACTIVITIES

The deadline for receipt of applications to the FSIDA is 4:30 p.m., April 16.

This Fund exists to enable staff and graduate students of the University of Alberta to participate in the international transfer of knowledge and expertise and graduate research through partnerships in developing countries.

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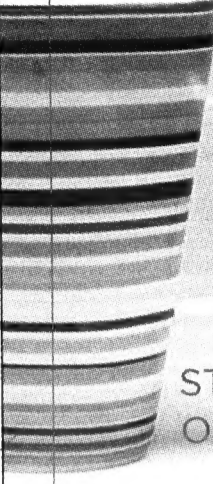
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Perspectives on Diversity



Perspective #2: Larry Beauchamp, Vice Provost and Associate Vice-President (Human Resources)

The University of Alberta is a highly diverse community of students and employees. It is a place where differing identities, values, and perspectives intersect. This intersection of diversity creates learning, working, and living environments that have the potential to be highly creative and fulfilling but also challenging and contentious. Exploring what is understood by the term diversity and, specifically, what the concept means to the University of Alberta is an important first step in considering how we should approach issues as they arise. This article is the second in a series that highlights some of the many ways our community demonstrates its commitment to incorporating the concept of diversity into our day-to-day learning, working, and living environments. We have begun by asking some members of senior administration to talk about their perspective on diversity and our university. We will also be highlighting the many administrative and academic units on campus that are approaching diversity from a positive and empowering perspective. It will be informative to learn about how these units welcome the opportunity to explore new and innovative ways of working together as a community and

thus support the four cornerstones articulated in "Dare to Discover: A Vision for a Great University" (Talented People; Learning, Discovery, and Citizenship; Connecting Communities; and Transformative Organization and Support). In this second perspective, we hear from Larry Beauchamp, Vice Provost and AVP (Human Resources).



Larry Beauchamp on Diversity:

Every smart organization understands the value of diversity. A diverse organization – one with people from a wide range of backgrounds and perspectives – has an increased chance of success for distinct reasons.

A diverse organization is a stronger global competitor because it has individuals who

can have insights into the values and approaches of many nations and cultures. Through the ties and understanding built in this way, trade and information flow more freely and with it the potential to increase the quality of life for all participants.

A diverse organization draws from the widest possible pools of talent. The organization that cannot or will not welcome and encourage a diverse population will necessarily miss out on the abilities of capable and talented contributors.

In this fast-moving, "globalized" world, organizations – like communities and nations – demand new thinking and creative solutions. An organization with a diverse population, when it harnesses the creative energy produced by differing approaches, has the potential to be an unstoppable problem-solving engine.

Just as the opportunities provided by a diverse community are clear, so are the challenges. Human beings are most comfortable with that which is familiar, and there are very few of us who have not, at some time, felt threatened by the unfamiliar. When we move past this feeling of threat, however, I believe people are powerfully drawn to seek out and find common ground. It becomes exciting to explore and celebrate our similarities in the context of that which seems to make us different.

Human Resource Services sees, as part of

its role at the university, responsibility for helping individuals and groups create the kind of creative and exciting environment described above. That means offering support in creating workplaces that are respectful, that actively encourage participation, that are inclusive and free of discrimination, and that can manage conflict when it inevitably arises.

Human Resource Services, in its new four-year plan, proposes a campus-wide effort to develop a strategy to actively promote and foster diversity. We hope to harness the lessons and experience of university work units and individuals to put into place programs and materials that ensure the U of A is a leader in workplace diversity.

- Larry Beauchamp

Please look to future issues of Folio to learn about some of the success stories of how our university embraces and encourages diversity and how we can successfully overcome the challenges we encounter.



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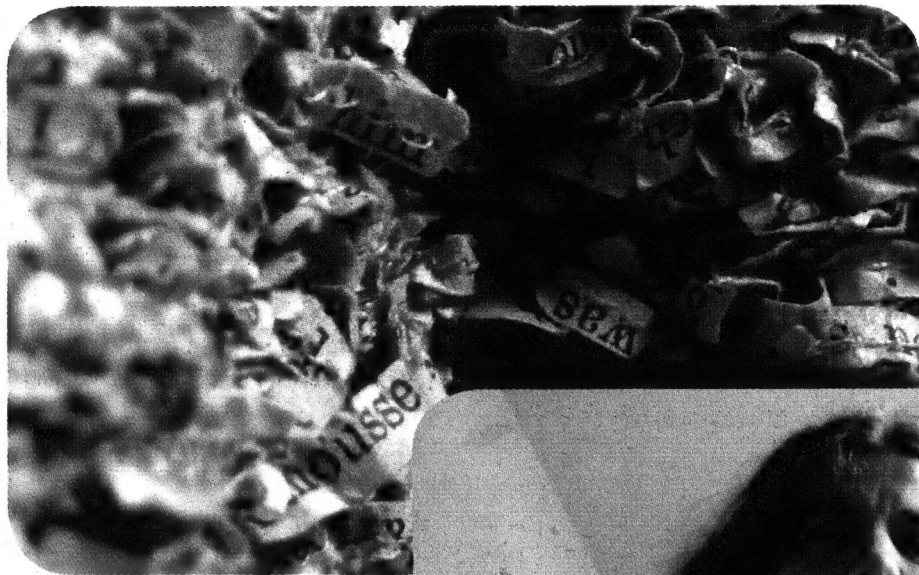
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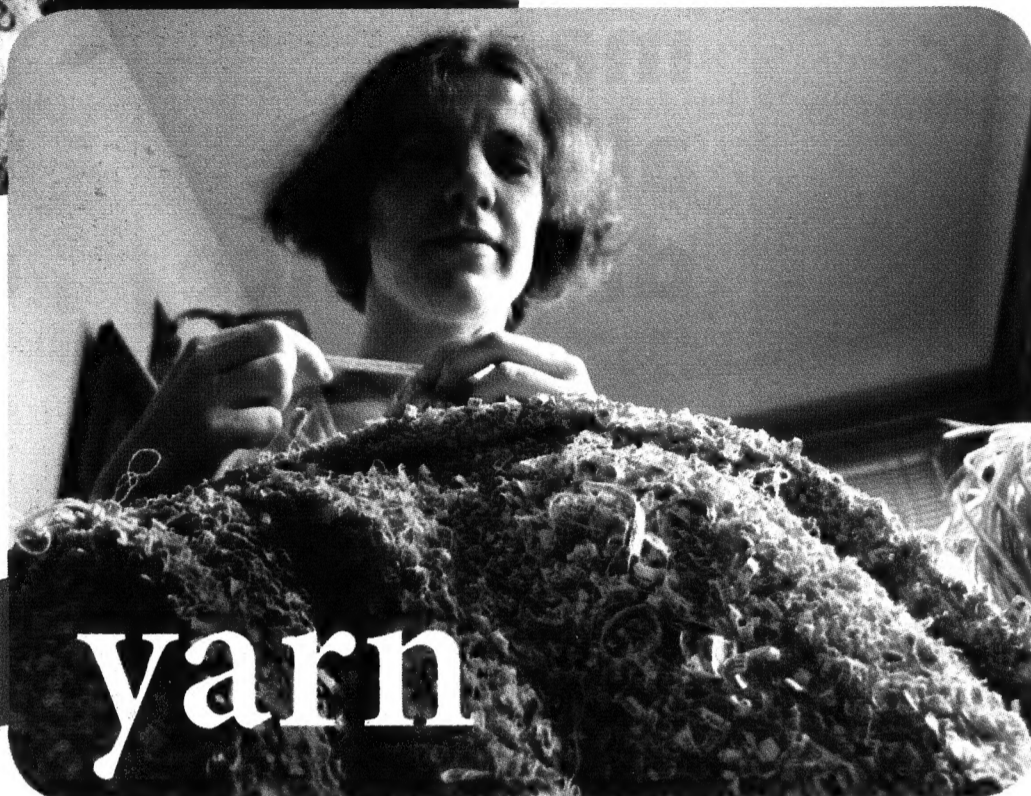
Canada

Wanda Vivequin



A close up of *The Anchor of Jutta*. Jennifer Bowes has taken knitting to a whole new level, by blending sewing, knitting and the written word.

Wanda Vivequin



Knitting a good yarn

The painstaking process of weaving 12 feet of yarn and paper

By Wanda Vivequin

Jennifer Bowes is knitting a book in the name of art – six copies of the same book, to be exact.

Nestled into a comfortable leather chair with a cat on her lap, a three-metre swathe of knitted words spills onto the

floor as Bowes slowly adds inches to her unusual artwork.

"Most people's reaction when I tell them what I am doing or if they come over to see the work, is, 'You must be crazy!' " said the soft-spoken Bowes, a University of Alberta graduate and instructor in the Department of Art and Design.

"I come home from work and I knit. And when I tire of that I sew, and then I go back to knitting, often until 2 a.m.," she said.

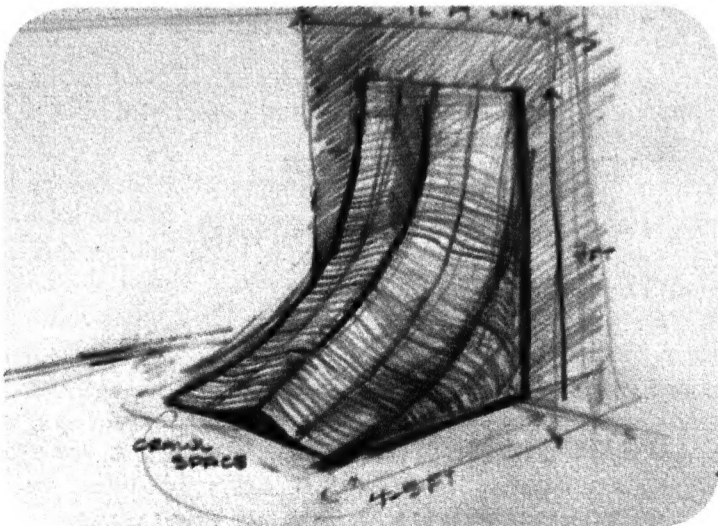
Bowes' work involves cutting lines from the third book of Romain Rolland's trilogy describing the life of early 20th century composer Jean Christophe, before sewing the paper strips into yarn and knitting the word-covered wool into fabric.

The finished piece will be 12-feet long. It will eventually be attached to a cotton canvas and then anchored to a wall and allowed to fall to the floor.

"I was always taught that it is bad luck to name a piece, but for now the work is called *The Anchor of Jutta*," Bowes explained. "Jutta was an anchorite in the Middle Ages who isolated herself from the world within four walls to pursue a contemplative life and write stories. So, for me, this piece is like a container for my own thoughts."

The Anchor of Jutta has been accepted into the Alberta Biennial of Contemporary Art 2007 which opens at the Art Gallery of Alberta in June and features the work of 20 artists. The piece will then move to the Banff Centre for the Arts in October. ■

Jennifer Bowes



A sketch of the finished work, as it will appear at the Alberta Biennial of Contemporary Art in June, and the Banff Centre for the Arts in October of this year.

Jennifer Bowes



The knitted creation was originally intended to be 20-feet long. But after hundreds of hours of work, artist Jennifer Bowes has decided to aim for 12 feet, instead.

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